

Apprenticeships for High-Growth Sectors of Los Angeles

City of Los Angeles Economic and Workforce Development Department



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Executive Summary

ICF was contracted by the City of Los Angeles Economic and Workforce Development Department (EWDD) to provide strategic planning, research, and policy recommendations for upscaling registered apprenticeship programs within eleven targeted “high-growth” sectors for the city. This Report assesses current apprenticeship opportunities within these eleven sectors as identified by the City’s Workforce Development Board and identifies apprenticeship programs in which the EWDD may want to invest. This includes using city-wide data to provide an overview of current apprenticeships, highlight best practices across industries on a national level, identify untapped apprenticeship potential within high-growth sectors, and explore opportunities for upscaling registered apprenticeship (RA) programs.

Background Context

Los Angeles County’s population exceeds 10 million culturally and ethnically diverse residents; nearly half the County’s population is of Hispanic origin, over 15 percent of residents report their race as Asian, and the majority of L.A. County residents speak a language other than English at home.¹ The U.S. Census Bureau classifies “Limited English Proficient” (LEP) as the inability to speak English “very well” and notes that workers who are LEP may have difficulty finding employment or succeeding with employers who prefer English, affecting LEP individuals’ employability and wage-earning potential. A secondary factor which precludes employment is educational attainment. In Los Angeles County, approximately 22 percent of residents have not completed high school or high school equivalency. Despite the large population of the County, population growth in the region has slowed and continued slow growth is expected for at least the next decade.² County population growth and demographics supply valuable information when addressing labor market needs.

The employment landscape for Los Angeles is changing. Increasingly, there is a gap between the high demand for middle-skill workers and the under-skilled labor force. Middle-skilled jobs are those which require more than a high school diploma, but less than a postsecondary degree. Individuals employed in middle-skill occupations are trained for their specific occupation, and have more opportunities for career advancement. Additionally, employees possessing skillsets necessary for a middle-skill occupation are less vulnerable to future automation than lower-skilled workers.

Not only is this middle-skill gap forecasted to continue for Los Angeles, but also increase due to Los Angeles’ aging workforce. Currently, expected vacancies will be unmet by a trained youth workforce.³ Many industries which will be hit hardest by this skills gap offer jobs which are well-paying and with significant career opportunities. These jobs are clustered within eleven high-growth sectors. The Los Angeles Economic and Workforce Development Board has identified these opportunities as unique to the basin due to supplier specializations, diverse industry clusters, and labor market pooling. These sectors are: Advanced/Clean Manufacturing, Healthcare, Biosciences and Biotechnology, Green Technology, Information Technology (IT), Security, Logistics, and Utilities. Each sector can be positively impacted by upscaling of apprenticeship opportunities, serving to equip a new labor force with necessary skills and training to individually advance career pathways and reduce Los Angeles’ middle-skill employment gap.

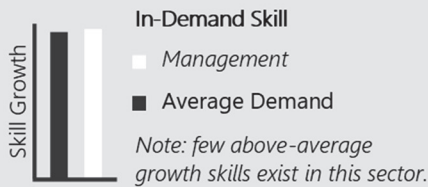
¹ <https://www.census.gov/quickfacts/fact/table/losangelescountycalifornia/PST045217#qf-headnote-a>

² L.A. and Orange County Community Colleges: Powering Economic Opportunity

³ <https://www.nationalskillscoalition.org/resources/publications/2017-middle-skills-fact-sheets/file/California-MiddleSkills.pdf>

High Growth Skills in Los Angeles County

Highlighting above-average growth skills and top-posted occupations within high-growth sectors.

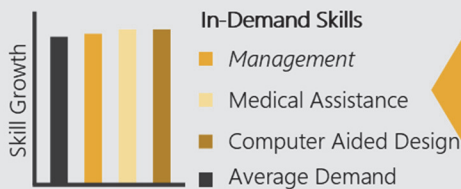
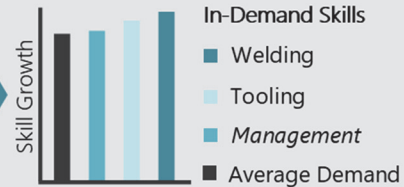


Entertainment and Hospitality

Top Sector Jobs: Direct supervisors of food preparation and serving workers, food preparation and serving workers, restaurant cooks

Advanced and Clean Manufacturing

Top Sector Jobs: Machinist, insurance sales agents, direct supervisors of production and operating workers



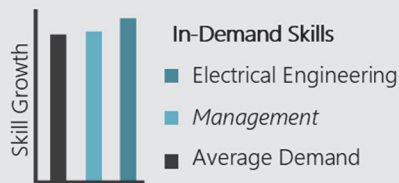
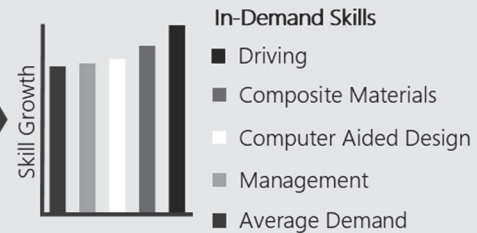
Healthcare, Biosciences, and Biotechnology

Top Sector Jobs: Registered nurses, licensed practical and licensed vocational nurses, social and human service assistants

Top Sector Jobs: Construction managers, direct supervisors of construction trades and extraction workers, cost estimators



Construction



Logistics and Utilities

Top Sector Jobs: Management analysts, logistics and utilities computer occupations, logistics and utilities managers

Information Technology and Security

Top Sector Jobs: Application software developers, IT and security computer occupations, computer systems analysts



Findings

Surveying the contemporary landscape of eleven high-growth sectors – including identification of existing apprenticeship programs, current and projected job openings, and industry best-practices – revealed several insights relevant for Los Angeles. These are listed below, broken down by sector grouping.

Clean Manufacturing and Green Technology

- It is difficult to identify available registered apprenticeships which explicitly state they are for clean or green occupations. Rather, existing apprenticeships are available in various occupations related to manufacturing.
- Eventual job titles do not match with credentials received from apprenticeship, making it difficult to quantify existing and projected apprentice able manufacturing occupations in Los Angeles.
- Many apprenticeships can (and according to California policy, should) incorporate elements of green technology; however, few nationwide – and none in Los Angeles – explicitly state they are a “green tech” registered apprenticeship.
- Skills within Clean Manufacturing and Green Technology sector occupations that grew at an above average rate between October 2017 and September 2018 include management, tooling, welding, C (programming language), and Microsoft Excel. These skills present opportunities for job seekers and apprenticeship programs.
- High-need occupations in the Clean Manufacturing and Green Technology sector are machinists, insurance sales agents, and first-line supervisors of production and operating workers. These occupations were the most prominent among sector job postings between October 2017 and September 2018. Management was one of the most often requested skills in job postings for these occupations over the same period.
- Two-thirds of direct jobs in energy efficiency are projected to occur in the construction industry,⁴ indicating a linkage between the two sectors which should be explored further.

Registered Apprenticeship Programs Should be Especially Considered for the Following Occupations:

- Healthcare Assistants (Medical, Laboratory, Nursing)
- Registered Nurses
- Laboratory Technicians
- Information Security Analysts; Cyber Security Support Technicians
- Database Technicians
- Network and Computer Systems Administrators/Specialists/Technicians
- Water Transportation Workers (Supercargo)
- Smart-grid technicians
- Carpenters
- Insurance Agents/Associates
- Concierge Services (Hotel Associates and Managers, Lodging Managers)
- Sound Technicians
- Management (relating to and across all sectors)

⁴ <https://www.dir.ca.gov/CAC/ReportsPublications/CACNewsletter3rdQuarter2013.pdf>

Healthcare and Biosciences

- There is currently underutilized potential for registered healthcare apprenticeships in Los Angeles.
- RAs exist for various medical technicians but not for high-demand occupations in the sector.
- Los Angeles is a nationwide example of biosciences, due to its registered life science apprenticeship programs. Despite this, there are few RAs in this sector for high-demand occupations, including for Laboratory Technicians and Medical Assistants.
- Skills within Healthcare and Biosciences occupations that grew at an above average rate over the studied period include management, medical assistance, and computer aided design. These skills represent promising areas for RA expansion to best prepare job seekers to gain employment in the Healthcare and Biosciences sector as well as the broader labor market.
- High-need occupations within the Healthcare and Biosciences field include registered nurses, licensed practical and vocational nurses, and social and human service assistants. These occupations were the most prominent within the sector's job postings between October 2017 and September 2018. Management was one of the most often requested skills in job postings for these occupations over the same period.

Information Technology and Security

- Aside from a registered apprenticeship specifically related to cybersecurity, Los Angeles hosts no other security apprenticeships.
- The LA Basin has comparatively few RAs for IT career pathways and is missing an opportunity to capitalize on key employment drivers of this sector, including for diverse cybersecurity careers.
- Skills within Information Technology and Security occupations that grew at an above average rate between October 2017 and September 2018 include management and investigation. However, these skills did not rapidly and/or greatly increase in demand.
- Occupations within the Information Technology and Security sector which were in high demand between October 2017 and September 2018 include software developers, a variety of computer occupations, and computer systems analysts. Management was one of the most often requested skills in job postings for these occupations over the same period.

Logistics

- RAs exist for various logistics occupations in Los Angeles; however, average salaries are among the lowest of all sectors.
- RAs should be upscaled for logistics occupations with promising career advancement opportunities – including for those involved in supply chain management and water transportation.
- Skills within Logistics occupations that grew at an above average rate over the studied period include electrical engineering and management. These skills are growing in demand within industry occupations and represent promising areas to explore.
- The most in-demand occupations within the Logistics field between October 2017 and September 2018 are management analysts, a variety of computer occupations, and a variety of managers. Management was one of the most often requested skills in job postings for these occupations over the same period.

Construction and Utilities

- Los Angeles has nearly 50 apprenticeships related to the construction sector, with an average hourly salary of over \$22.
- Skills within Construction and Utilities occupations that grew at an above average rate between October 2017 and September 2018 include composite materials, computer aided design, management, electrical engineering, construction, driving, Microsoft Excel, and lathes. If RAs are established within carpentry or modified within construction, the integration of the above high-demand skills should be considered.
- The most-posted occupations within the Construction and Utilities sector between October 2017 and September 2018 were construction managers, first-line supervisors of construction trades and extraction workers, and cost estimators. Two above-average growth skills, construction and management, were two of the most often requested skills in job postings for all mentioned high-need occupations over the same period.

Financial Services

- Jobs in financial services are increasingly turning away from traditional roles, and increasingly moving into the online, alternative lending, and insurance spheres.
- Los Angeles currently has few RAs in this sector, and should consider implementing an RA for insurance associates.

Hospitality and Entertainment:

- RAs exist for various entertainment occupations, with the notable exception of sound technicians. Line cook and room attendant RAs exist within the hospitality sector.
- Management was the only skill within Hospitality and Entertainment occupations that grew at an above average rate between October 2017 and September 2018.
- The most prominent occupations within sector job listings between October 2017 and September 2018 in Los Angeles County are first-line supervisors of food preparation and serving workers, combined food preparation and serving workers, and restaurant cooks. Management was one of the most often requested skills in job postings for these occupations over the same period.

Overview of Apprenticeship Programs for Los Angeles’ High-Growth Sectors

Apprenticeships are promising due to their focus on direct and pragmatic skills-training directly relevant for local industry needs, which benefit the apprentice, employer, and industry as a whole.

Apprenticeships incorporate an “earn-while-you-learn” approach, which provides participants with a salary while enrolled in the program. Apprentices are typically full-time employees during training, who receive wages which increase progressively throughout the program. Completion of a training program results in an industry-recognized credential, and occasionally college credits.⁵ Apprenticeship programs

⁵ Scott, G. (2016). *Work-Based Learning in Action: The Industrial Manufacturing Technician Apprenticeship* (pp. 1–9). Jobs for the Future. Retrieved from [file:///C:/Users/41173/Downloads/Work-Based%20Learning%20in%20Action%20IMT%20Program%20Case%20Study%20\(Jobs%20for%20the%20Future\).pdf](file:///C:/Users/41173/Downloads/Work-Based%20Learning%20in%20Action%20IMT%20Program%20Case%20Study%20(Jobs%20for%20the%20Future).pdf)

have been proven to result in increased skills, higher wages, and promising career pathways for those who complete the program.⁶ Employers equally benefit, as they are connected to apprenticeship graduates – called journeymen – who have recently been trained in the direct skillsets required to succeed in their chosen occupation, helping to reduce job turnover and decrease training required. Further, apprenticeships are customized to the specific industry and occupation they service, allowing for employer and employee flexibility and adaptability. Program designs vary between time and competency-based programs (Figure 1), as does the layout of course content (Figure 2).

Figure 1: Varying Apprenticeship Designs

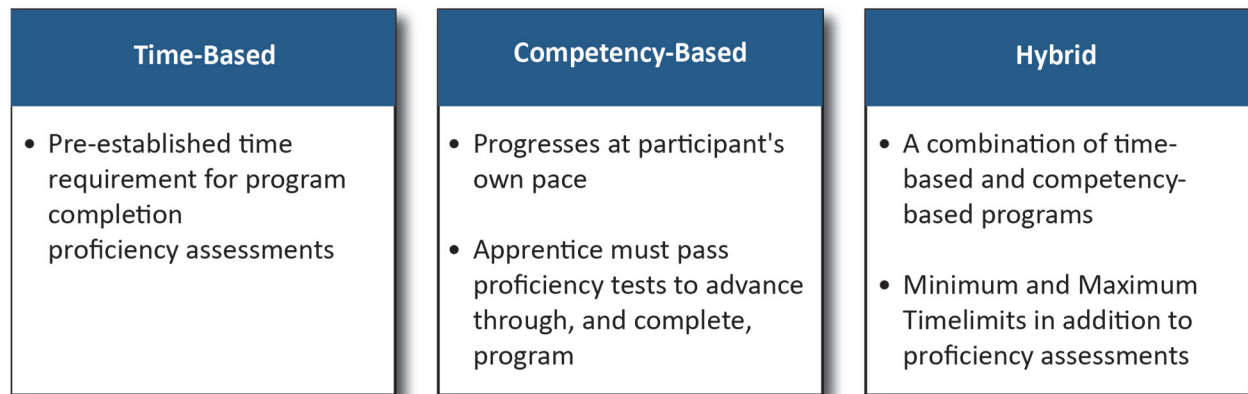
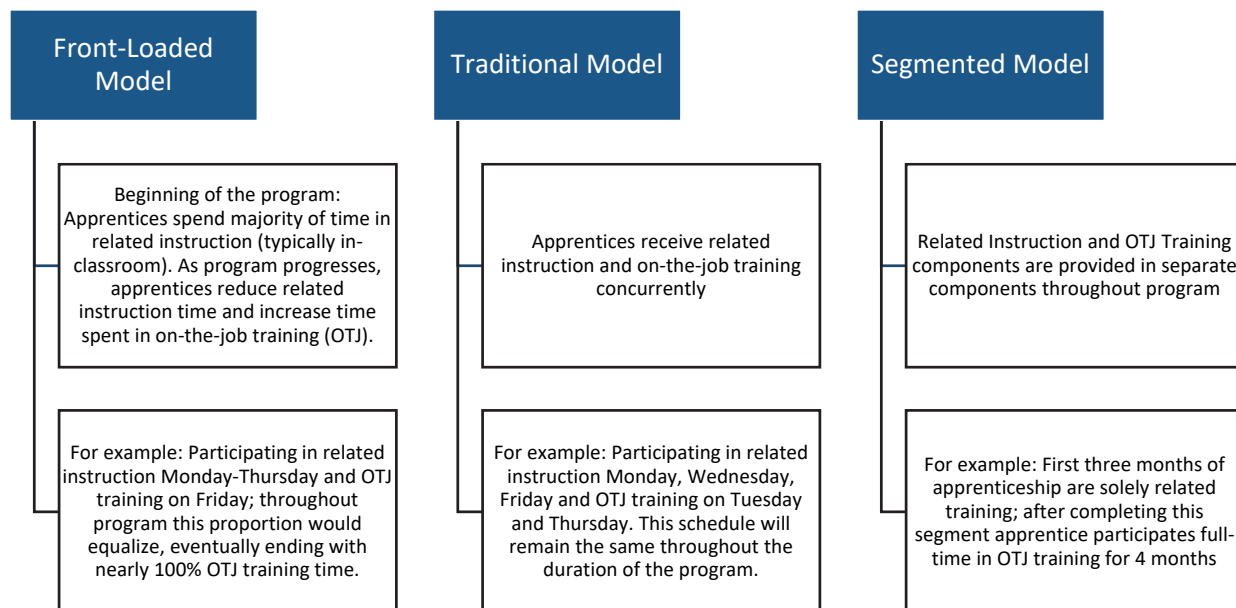


Figure 2: Varying Apprenticeship Model Types



The remainder of this section provides an overview of each sector identified as being of high growth by the City's Workforce Development Board. It provides background information into the sector and types of jobs available, as well as a scan of existing registered apprenticeship programs within the Los Angeles basin.

⁶ https://ccworkforce.org/wp-content/uploads/2018/02/LAEDC-DME-Report-0209_spreads-low-res.pdf

Advanced/Clean Manufacturing

Overview

Previously, only high-level manufacturing jobs typically required skills training. Yet, the increasing demand for advanced manufacturing – which utilizes emerging technologies to create more efficient modes of production and reduce costs while increasing global competitiveness – demands a higher proportion of higher-skilled workers. Traditional manufacturing jobs have decreased in number over the past four decades⁷. However, this has mainly been because of a total transformation in the distribution and production processes due to globalization. Yet manufacturing, and particularly advanced manufacturing, still plays a critical role in the U.S. economy. To continue to do so, industries must remain competitive through their innovative production processes, utilization of advanced technology, and using advanced processes through the value chain to reduce costs.⁸ This challenges the sector to train new employees in advanced technical skills suitable for advanced manufacturing careers, which can be found in industries ranging from automobiles to flooring to defense.

Apprenticeships have a role to play in promoting skills development for advanced and clean manufacturing occupations. Wages have risen over the last decade to reflect these trends, as have the rise of apprenticeships within the manufacturing field.⁹ However, significant skills gaps exist and other challenges include an aging skilled workforce, investing in staff trained to latest technological advances, and attracting talent to the manufacturing sector.

Existing Apprenticeships in Los Angeles

Manufacturing jobs range widely in type of job, skillset required, and average annual pay. High-demand apprenticeship opportunities in this sector – as identified by the DOL – include for precision machinists, industrial maintenance repairers, mold makers, plastics fabricators, tool and die makers, and CNC Set-Up programmers.¹⁰ Five currently registered apprenticeship programs were chosen as being the most promising for Los Angeles County. This is based on the number of current and projected jobs, as well as those identified with higher-than-average hourly earnings.

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
<i>Structural Iron and Steel Workers</i>	<i>Field Structural Worker</i>	1,547	1,766	\$30.10	\$25.74
The Ironworker Employees' Benefit Corporation nonprofit administers several skills training programs. For instance, the Field Ironworkers Apprenticeship and Journeyman Retraining Program ensures that unionized iron workers have the skills and training necessary to remain competitive in the workplace. Workers along each step of their career are eligible to take advanced courses, extending the benefits of skills training even after finishing an apprenticeship program. ¹¹					
<i>Industrial Machinery Mechanics</i>	<i>Industrial Mechanic</i>	6,860	6,699	\$25.99	\$24.64

⁷ https://www.expandapprenticeship.org/system/files/wai_apprenticeship_toolkit_june17.pdf

⁸ <https://www.tradeandindustrydev.com/industry/manufacturing/traditional-industrial-vs-advanced-manufacturing-t-8304>

⁹ <https://www.dol.gov/apprenticeship/industry/pdf/AdvancedManufacturing-Fact-Sheet.pdf>

¹⁰ <https://www.dol.gov/apprenticeship/industry/advanced-manufacturing.htm>

¹¹ <http://www.universityofiron.org/>

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
The Industrial Technical Learning Center implements apprenticeships for Industrial Mechanics; programs take 48 months to complete. Apprentices earn a starting salary of \$15.000 per hour.					
<i>Machinists</i>	<i>Machinist</i>	11,681	11,001	\$20.20	\$19.36
	<i>Wire E.D.M. & Conventional Technician</i>	11,724	11,094	\$20.24	\$19.42
The Southern California Tool & Die Mold, Machinist & Metal Working Trades Apprenticeship Committee oversees many of these apprenticeships. The program lasts 48 months with a starting wage of \$10 per hour. ¹² California Tooling and Machining Apprenticeship Association also provides apprenticeships – most often paid for by the employer – which have recently produced over 100 qualified machinists in Southern California. ¹³ Machinists can go on to work in aerospace, electronics, instrumentation, public utilities, automotive, medical devices, industrial, and energy industries.					
<i>Computer-Controlled Machine Tool Operators, Metal and Plastic</i>	<i>Precision Machining Technician</i>	3,388	3,122	\$19.48	\$17.98
The Southern California Tool & Die Mold, Machinist & Metal Working Trades Apprenticeship Committee provides apprenticeships for Precision Machining and Grinding Technicians in Santa Fe Springs. Training programs last approximately 7 months of hands-on career training. Apprentices are provided access to industry-leading companies, career services, and lifetime job placements. ¹⁴					

Healthcare

The healthcare sector represents the region’s largest private and public industry. Despite an overall economic recession, job growth has continued to increase by 37% over the past decade.¹⁵ More than half of all healthcare jobs are defined as middle-skilled, meaning they require either an Associate’s degree, a postsecondary nondegree, or some college. Middle-skill job vacancies are forecasted to grow. Popular middle-skill occupations in the healthcare sector include registered nurses, medical and nursing assistants, paramedics, physical therapist assistants, dental hygienists, and technicians.

While clinical placements traditionally have provided students the opportunity to practice in real-life settings before becoming certified, there are a limited number of clinical placements in Southern California due to regional competition. Currently, 25 community colleges within Los Angeles and Orange Counties offer nearly 20 certificate and degree programs related to healthcare.¹⁶ Within Los Angeles, 12 apprenticeships were found to exist within various fields of the Healthcare sector. Three of the most promising occupations, with associated registered apprenticeships, are highlighted below. Currently, it appears Los Angeles has several apprenticeship opportunities for various medical technicians and technologists. However, registered apprenticeships for other high-demand occupations – including for nursing assistants, physical therapist assistants, and dental hygienists – are not currently available.

¹² https://www.dir.ca.gov/databases/das/results_aigdetail.asp?varOcclId=686

¹³ <https://www.calmachinist.com/>

¹⁴ <http://trainingcenters.org/>

¹⁵ https://ccworkforce.org/wp-content/uploads/2018/05/CCW_Heath-Care-Highlight-Report_Digital.pdf

¹⁶ https://ccworkforce.org/wp-content/uploads/2018/05/CCW_Heath-Care-Highlight-Report_Digital.pdf

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
Clinical Laboratory Technologists and Technicians	<i>Clinical Data Coordinator</i>	9,698	10,593	\$41.35	\$36.60
Life, Physical, and Social Science Technicians	1) <i>Clinical Research Coordinator</i> 2) <i>Clinical Trial Associate</i> 3) <i>Quality Assurance Associate Auditor</i>	2,422	2,756	\$25.76	\$23.05
<p>The RX Research Services Unilateral Apprenticeship Committee issues certifications for various technologists and technicians – including clinical laboratory technologists, and life, physical, and social science technicians. The Committee issues several apprenticeships through the Academy of Clinical Research Professionals including apprenticeships for Clinical Data Coordinators, Clinical Research Coordinators, Clinical Trial Associates, and Quality Assurance Associate Auditors.</p> <p>Clinical Research Associates are certified through the Academy of Clinical Research Professionals. All four above-mentioned apprenticeships last 24 months in duration, during which apprentices are paid starting salaries of \$15 per hour.¹⁷ Apprenticeships include components instructing on quality control, regulatory affairs and compliance, clinical data, and drug safety.</p>					
Medical Records and Health Information Technicians	<i>Release of Information Specialist</i>	6,764	7,557	\$23.62	\$19.64
<p>The East Los Angeles College Health Information Technology Apprenticeship Program trains and certifies apprentices to become documentation specialists and technicians. Release of Information Specialist apprenticeships take 12 months to complete, and participants are paid \$12.00 an hour as a starting wage.¹⁸</p>					

Biotechnology and Biosciences

The biotechnology and biosciences industries generate \$40.3 billion to Los Angeles County’s economic activity, and supports 162,000 jobs, with an average annual income of around \$72,000.¹⁹ The life sciences industry is comprised of five clusters including occupations in bio renewables, biopharmaceuticals manufacturing, medical devices and diagnostic equipment manufacturing, life science wholesale trade, as well as research and development and education laboratory services. Additionally, most of these clusters registered job growth between 2011 and 2016, except for jobs in bio renewables and medical devices. Additionally, a range of occupations combine pharmaceutical jobs with medicine manufacturing and medical supplies and equipment manufacturing; thus, the bio-medical industry is also represented in the manufacturing sector.²⁰

While the highest-waged jobs in this sector tend to require advanced levels of education – and include positions such as biophysicists, microbiologists, and epidemiologists – middle-skill jobs with apprenticeship potential also are conducive to higher-than-average earnings. High earning jobs suitable

¹⁷ <https://meixrs.com/apprenticeship-program/>

¹⁸ <https://www.elac.edu/academics/departments/alliedHealth/healthinfo/>

¹⁹ <https://laedc.org/wp-content/uploads/2017/05/biocom-2017-economic-impact-report-databook.pdf>

²⁰ file:///C:/Users/41173/Documents/EWDD/Final_CCW_Report_Web_10_3%20with%20highlights.pdf

for those completing apprenticeships include medical and clinical laboratory technologists (with average yearly earnings in LA at \$80,500), biological technicians (\$50,100), and environment science and protection technicians, including in health (\$48,900).²¹ Like the healthcare sector, the RX Research Services Foundation is a major apprenticeship contributor. This Foundation partners with host companies to provide on-the-job apprenticeships directly within life sciences industries including for food, pharmacy, biotechnology, and medical devices. Currently, Los Angeles has few registered apprenticeships within the biotechnology sector. This includes apprenticeships to become Biological Technicians, Environmental Science Protection Technicians, and Clinical Laboratory Technologists and Technicians (included in the section on Healthcare).

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
Biological Technicians	Microbiology Quality Control Technician	2,292	2,485	\$26.19	\$24.53
<p>In addition to other apprenticeships in the Healthcare sector, the Rx Research Services Unilateral Apprenticeship Committee also provides apprenticeships for Microbiology Quality Control Technicians and Microbiologists. Programs range from 18 to 24 months in duration, and include practical instruction at a host company.²² Apprentices test and inspect products at various stages of the production process, monitor environmental conditions, record and evaluate test data, and write reports. The program is intended to help those currently unemployed and underemployed to transition to meaningful employment in a career in life sciences. Apprentices are paid as regular employees and receive the same benefits.²³</p>					
Environmental Science and Protection Technicians (Including Health)	Drug Safety Associate	926	1,015	\$31.03	\$30.95
<p>Although this program certifies relatively few apprentices, its high salary potential deserves mention. The RX Research Services Foundation partners with host companies to provide apprenticeships including for Drug Safety Associates.²⁴ Apprentices are trained in a variety of topics including on industry regulatory guidelines, drug safety management support, medical monitoring support, and safety and adverse event reporting.²⁵</p>					

Information Technology

California is the nation’s leader in the Information Technology (IT) sector. While Northern California is typically more associated with the IT industry, this sector is a significant employer in Southern California. Los Angeles’ “high tech” sector employed approximately 400,000 workers between 2013 and 2014.²⁶ High-tech sector occupations are defined by the use of technology and research and development to advance industries ranging from knowledge services to commerce. An estimated 14,742 tech businesses

²¹ <https://laedc.org/wp-content/uploads/2017/05/biocom-2017-economic-impact-report-databook.pdf>

²² <https://meirxrs.com/apprenticeship-program/quality-control-apprenticeships/>

²³ <https://meirxrs.com/apprenticeship-program/>

²⁴ <https://meirxrs.com/apprenticeship-program/quality-control-apprenticeships/>

²⁵ http://www.calbiotechcareers.org/wp-content/uploads/2017/04/scbc_Apprenticeships_1a.pdf

²⁶ https://laedc.org/wp-content/uploads/2014/10/High-Tech-in-LA_20141006_FF.pdf

are based in the Los Angeles area, causing the region to be described as “Silicon Beach”.²⁷ In Los Angeles, the IT field is primarily led by the aerospace and entertainment industries. The demand for middle-skill jobs in the IT sector continues to increase; additionally, the Burning Glass Report, a study conducted by Burning Glass Technologies and Capital One to understand the future of middle-skill jobs, found more than 80% of middle-skill jobs in this sector require digital skills. Not only are digitally-savvy individuals desired, they also are paid more than their non-digitally literate counterparts, placing them in the top quintile of all earners.²⁸ Digital skills are also associated with a pathway into higher-skilled jobs. Despite this, *the LA basin has comparatively few apprenticeships for IT career pathways*. Three identified registered apprenticeships are detailed below:

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
Electrical and Electronics Engineering Technicians	Electronic Systems Technician/Voice Data Video	3,840	3,753	\$33.75	\$32.47
The Southern California Chapter of Associated Builders and Contractors, Inc. provides a 36-month-long program for electronic systems technicians. More information on this apprenticeship can be found here: http://www.abcsocal.org/ .					
Security and Fire Alarm Systems Installers	Fire/Life Safety, Voice Data, Video & Electronic Security Technician	2,382	2,563	\$23.50	\$23.30
This apprenticeship is an example of one that merges knowledge of IT with the security field. The Western Burglar & Fire Alarm Association of California provides Security Technician apprenticeships for qualifying applicants. ²⁹ The program lasts 36 months in duration.					
Telecommunications Equipment Installers and Repairers, Except Line Installers	Communication & Systems (Craft) Installer and IT Electronic Repairers	11,414	10,313	\$26.85	\$25.83
Apprentices undergo a 36-month training program to become Communication and Systems (Craft) Installers. They receive licenses through the Los Angeles County Intercommunication & Sound J.A.C., and receive a starting salary of \$12.07 an hour. ³⁰					

Security

The security industry has witnessed a huge increase in capacity and jobs since 2010, continuing to grow every year.³¹ The use of private security particularly has been growing, protecting not only companies and people but also intellectual property. While more traditional security jobs continue to exist – including security guards, investigators, and gaming surveillance officers – this sector is also witnessing an upsurge in information security professions. The information technology and security sectors often

²⁷ <https://www.comptia.org/about-us/newsroom/press-releases/2017/04/03/california-technology-industry-added-more-than-48-500-jobs-in-2016>

²⁸ https://www.burning-glass.com/wp-content/uploads/Digital_Edge_report_2017_final.pdf

²⁹ https://www.dir.ca.gov/databases/das/results_aigdetail.asp?varOcclId=3627

³⁰ https://www.dir.ca.gov/databases/das/results_aigdetail.asp?varOcclId=640

³¹ <https://www.buildingsecurity.com/recent-private-security-growth/>

merge together. For instance, information security analysts monitor computer networks and information, and ensure security controls protect digital files.³² Increasingly, companies are seeking to combine their traditional security programs with technology. This this can result in fewer manned hours at a security desk and calls for an uptake of skills required by the remaining security team. The security industry will require skilled professionals to staff occupations increasingly reliant on digital information management. This requires an increase in the number of available apprenticeship programs which focus on security, particularly regarding the utilization of technology, such as information security programs. Currently, *Los Angeles only has one apprenticeship program which focuses on security specifically as it relates to cybersecurity.*

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
Information Security Analysts	Computer Support Specialist/Cybersecurity	2,168	2,500	\$48.88	\$50.46
<p>The California Cybersecurity Apprenticeship Project (CCAP) – provides apprenticeships for Computer Support Specialists, particularly in the field of cybersecurity – resulting in a CompTIA Security+ certification. This apprenticeship is provided entirely online by Coastline Community College. The first cohort began in 2017, and the second cohort will begin in October of 2018.³³ Students learn cybersecurity techniques through classroom instruction as well as hands-on instruction with local companies.</p>					

Logistics

The warehousing and logistics industry in Southern California continues to grow in scope, now representing one of the largest U.S. consumer markets. Since 2005, the industry has grown by 9.7%, far outpacing the regional average, and payroll has grown by over 55% within the past decade.³⁵ While average annual wage growth has grown throughout the industry, with wages in the industry paying 14% more than average wages across other sectors in Southern California, real wage growth has been mild. Most promising wage growth was recorded in wholesale trade (growing by 5.3%) and in transportation (by 4.7%); warehousing and logistics industries have witnessed declines. While payroll has grown, and wage growth has grown modestly, wages do vary throughout the sector. As an example, the average wage for water transportation was over \$111,000, whereas the average wage for road transportation was \$36,950.³⁶ Wages are highest for those involved in supporting activities for water and air transportation, as well as wholesale trade, specifically wholesale trade in electronics markets – for which there are significant employment opportunities.

Industry	% of Total Logistics Sector Employment³⁴
Wholesale trade	65%
Truck Transportation	11%
Air Transportation	>6%
Total	

³² <https://www.bls.gov/oes/current/oes151122.htm>

³³ <https://ccap-coastline.org/>

³⁴ https://laedc.org/wp-content/uploads/2017/06/TL_20170515_Final.pdf

³⁵ https://laedc.org/wp-content/uploads/2017/06/TL_20170515_Final.pdf

³⁶ https://laedc.org/wp-content/uploads/2017/06/TL_20170515_Final.pdf

Within each industry, occupations include transportation and material moving occupations, office and administrative positions, and in accompanying occupations including installation, maintenance, repair, production, and finance. Challenges to the sector include automation, which has the propensity to replace workers, especially those that are lower-skilled. An aging labor force will also result in an increased demand for workers in this industry – with an estimated 69,910 positions becoming available over the next 10 years in Southern California.³⁷ Trade schools, technical schools, and community colleges try to reduce on-the-job training required by new entrants by training individuals prior to starting jobs. These programs are diverse, ranging from certifications for warehouse managers to commercial drivers, to freight brokers and purchasing managers. *While registered apprenticeships exist for some logistics occupations within California, average salaries for journeymen are among the lowest across all sectors. Registered apprenticeship programs should be upscaled for logistics occupations which can lead to higher future salaries, including those involved in water and air transportation.* Existing apprenticeships are primarily for construction drivers and warehouse workers. Several are highlighted below:

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
Laborers and Freight, Stock, and Material Movers, Hand	Teamsters Warehouseman/Forklift Operator	103,176	109,275	\$14.95	\$12.88
Heavy and Tractor-Trailer Truck Drivers	Teamsters Construction Drivers, including: Cement Trucks, Construction Fuel Trucks, Oil Spreader Trucks, Low-bend (large) Trucks, Water Trucks	72,634	81,415	\$20.05	\$18.98
The Construction Teamsters Apprenticeship Fund of Southern California administers various apprenticeships for heavy-duty and commercial truck drivers, as well as for warehouse workers. Programs last 36 months in duration. Additional classes for upgrading skills of existing members lasts between five and eight weeks. ³⁸					
Electrical and Electronics Installers and Repairers, Transportation Equipment	Transportation Systems Electrician	399	403	\$39.69	\$41.25
The LA County Intelligent Transportation Systems Electrical Joint Apprenticeship and Training Committee administers apprenticeships for this profession. During the program, participants receive a starting wage of \$14.24.					
The Electrical Training Institute of Southern California additionally offers hazard facility training courses, electrical vehicle infrastructure training programs, and energy storage and microgrid training and certification, thus merging the sectors of green technology and transportation. ³⁹					

³⁷ https://laedc.org/wp-content/uploads/2017/06/TL_20170515_Final.pdf

³⁸ <https://teamster.org/magazine/2013/fall/construction-training-program-benefits-members-and-veterans>

³⁹ <http://www.laett.com/>

Utilities

The utilities sector encompasses all industries involved in electric power, natural gas, water, and sewage systems. Southern California – and specifically Los Angeles – houses four of the largest utility companies for the state. For decades, this sector has experienced employment stability, continuing to provide strong middle-class earnings.⁴⁰ However, several challenges are evident. First, many utilities workers with specific skillsets and knowledge are nearing retirement, without enough skilled replacement workers prepared to fill these positions.⁴¹ Additionally, the types of jobs required within this sector are also changing. Recent reports indicate almost 35% of utility jobs will be significantly impacted by the transformation to smart-grid technology. The emergence of “smart-grid” related jobs include positions such as computer and information systems managers and meter readers. Other traditional utilities jobs will also witness major transformations in the responsibilities and skills required – including first-line field supervisors, telecommunications line installers, electrical power-line installers/repairers, and building inspectors. It is predicted that smart-grid technology will also enter the water industry, creating similar challenges within these positions.⁴²

Currently in Los Angeles, *there is no clear pipeline that can train new utility workers on smart-grid technology knowledge*. Several community colleges offer programs in these fields, but they are limited in their ability to up-scale because of funding challenges. In the near future, utility employers and community colleges will need to strengthen partnerships to train enough workers to meet utility demands. Recommendations include:

- Making curriculum more flexible, which can allow community colleges to respond more quickly to changing skill demands, and increasing relevance of skills required by students. Improving the flexibility of the curriculum may facilitate engagement with more employers to promote externships.⁴³
- Changing assumptions about the utility sector with today’s youth may improve the sector’s appeal to new workers. Most high-school students do not have exposure to, or knowledge of, utility careers. There are misconceptions that utility sector jobs are low-skill without much career advancement and that the line of work is highly labor-intensive and dangerous.⁴⁴ Companies and community colleges that can increase students’ exposure to the range of utility occupations which exist may generate interest in this field. One way to do this may be through highlighting the sector’s relevance for high-demand STEM fields.

Los Angeles has over a dozen apprenticeships which already exist within the Utilities sector; however, a large majority of them are in the electrical industry, with few existing for water, sewage, or other utilities. Several of the most promising apprenticeships are highlighted below:

⁴⁰ [file:///C:/Users/41173/Documents/EWDD/Final CCW Report Web 10 3%20with%20highlights.pdf](file:///C:/Users/41173/Documents/EWDD/Final%20CCW%20Report%20Web%2010%203%20with%20highlights.pdf)

⁴¹ [https://labcinstitute.org/files/Utilities_Workforce_Development - Stoll FINAL FULL.pdf](https://labcinstitute.org/files/Utilities_Workforce_Development_-_Stoll_FINAL_FULL.pdf)

⁴² [https://labcinstitute.org/files/Utilities_Workforce_Development - Stoll FINAL FULL.pdf](https://labcinstitute.org/files/Utilities_Workforce_Development_-_Stoll_FINAL_FULL.pdf)

⁴³ [https://labcinstitute.org/files/Utilities_Workforce_Development - Stoll FINAL FULL.pdf](https://labcinstitute.org/files/Utilities_Workforce_Development_-_Stoll_FINAL_FULL.pdf)

⁴⁴ [https://labcinstitute.org/files/Utilities_Workforce_Development - Stoll FINAL FULL.pdf](https://labcinstitute.org/files/Utilities_Workforce_Development_-_Stoll_FINAL_FULL.pdf)

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
Electricians	Electrician (Inside Wireman) and Residential Wireman	15,629	17,376	\$29.67	\$28.98
The Southern California Chapter of the Associated Builders and Contractors Inc. provides eight certifications for various Electrician apprenticeships. The apprenticeship lasts 54 months in duration – much longer than most – where starting salary is based on project determination.					
Electrical and Electronics Engineering Technicians	Electronic Systems Technician/Voice Data Video and Operations & Maintenance Technicians	3,840	3,753	\$33.75	\$32.47
The Metropolitan Water District of Southern California J.A.T.C. provides a limited number of apprenticeship programs for Electronics and Electric Engineering Technicians, which become available based on needs. Starting salary is \$16.86 an hour, and apprentices receive pay increases at six-month intervals. After program completion, journeymen earn \$36.27 an hour, which is higher than the reported average salaried worker for this occupation. ⁴⁵					
Electrical Power-Line Installers and Repairers	Power Lineman	1,896	2,204	\$44.94	\$49.66
Cable Splicing Certifications are available for those who complete the Power Lineman apprenticeship through the Electrical Training Alliance. Apprenticeships take between 3-5 years to complete, contingent on proficiency evaluations. Apprentice wages are calculated as a percentage of the journeyman lineman's rate, and increases with each advancement of the training program. For more information please refer to the Joint Apprenticeship Training Committee's website.					
Plumbers, Pipefitters, and Steamfitters	Fire Sprinkler Fitter	12,080	13,602	\$23.67	\$19.72
The National Inspection, Testing and Certification Corporation provides STAR Fire Sprinkler Fitter Mastery certifications for those completing the Sprinkler Fitter apprenticeship, through the Local 709 J.A.C.					
Mechanical Engineering Technicians	Operations & Maintenance Technician Iv (Mechanical)	1,250	1,200	\$31.27	\$31.26
The Metropolitan Water District of Southern California J.A.T.C provides Operations & Maintenance Technician programs for both apprentice electricians and mechanics. Those who participate in this apprenticeship earn credits which can be used to count towards an Associate degree from Santiago Canyon College. ⁴⁶					

⁴⁵ http://mwdh2o.com/PDF_Careers/PreApprenticeRecruitmentFAQ.pdf

⁴⁶ <http://www.mwdh2o.com/careers/Apprenticeships>

Construction

The construction sector in Los Angeles continues to experience stable growth, though has not yet returned to pre-2006 levels. Major construction projects are planned across both Los Angeles and Orange County. The sector employs more than 313,000 workers from across Southern California, and within the next five years an additional 95,000 jobs are expected to open.⁴⁷ This includes more than 30,000 for skilled trade workers, indicating a need for specialized job training. Occupations the construction sector are frequently for carpenters, electricians, plumbers and cement masons.

The construction sector features promising career pathways and opportunities; often entry-level workers will advance within their positions, acquire on-the-job training, and continue to higher positions and wages over time. Supplemental programs teaching specialized skills are available through over 100 regional apprenticeship providers, and include a range of vocational training, certification, degree-related workforce development programs, and on-the-job training.⁴⁸

Los Angeles has nearly 50 apprenticeships related to the construction sector, with an average hourly salary of \$22.59. Several, chosen either for the quantity of jobs available, or because of their high average salaries, are included below:

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
Construction and Building Inspectors	Building Construction Inspector	3,858	4,295	\$35.61	\$33.62
The Southern California Operating Engineers J.A.C. provides ten possible certifications for those completing this apprenticeship. It operates on an “earn while you learn” approach, with no-cost supervised training. Apprentices receive progressively-increasing wages with benefits, and at the end receive internationally-recognized credentials with improved job security and a higher standard of living. Program requires 3 to 4 years to complete. ⁴⁹					
Operating Engineers and Other Construction Equipment Operators	Equipment Operator	4,494	5,024	\$33.91	\$34.12
Those completing the Equipment Operator Apprenticeship receive a Graduate Builder certification. Once selected, apprentices complete 200 hours of orientation and 320 hours of supplemental related training. As the main component, Construction Equipment Operators must complete 6,200 hours of on-the-job training, and Heavy-Duty Repairmen complete 8,200 hours. ⁵⁰					
Landscaping and Grounds Keeping Workers	Landscape Laborer and Irrigation Fitter	36,579	39,338	\$14.47	\$12.86
Individuals completing this apprenticeship either receive certifications to become Landscape Industry Certified Lawn Care Technicians, or receive a Water-Based Systems Layout certification. The program lasts 24 months with a starting salary of \$13.81. ⁵¹					

⁴⁷ https://wearedace.org/wp-content/uploads/2017/10/Final_CCW_Report_Web_10_3.pdf

⁴⁸ (Cooper, Ritter-Martinez, Mitra, & DeWitt, 2016)

⁴⁹ http://www.calapprenticeship.org/programs/inspectors_apprenticeship.php

⁵⁰ http://www.calapprenticeship.org/programs/operating_engineer_apprenticeship.php

⁵¹ https://www.dir.ca.gov/databases/das/results_aigdetail.asp?varOclId=7232

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
Construction Laborers	Construction Craft Laborer	38,208	43,722	\$17.01	\$13.80
The Laborers of Southern California Joint Apprenticeship Committee provides Associate Constructor certifications for those completing this apprenticeship. The program lasts 24 months and has a starting wage of \$17.67 per hour. ⁵²					
Audio and Video Equipment Technicians	Acoustical Installer	11,473	11,936	\$25.98	\$22.48
The Southern California JATC provides an Insulation and Acoustical Contractor License for those who complete the Acoustical Installer apprenticeship. Apprentices are provided hands-on training in combination with classroom lectures and individualized coaching. ⁵³ This program prepares for an occupation which merges construction and technology to keep pace with emerging trends in sound control and ceiling systems.					

Financial Services

Although the financial services sector has yet to recover to pre-Recession rates, both home prices and the number of real estate transactions continues to rise in Southern California.⁵⁴ The Financial Services sector is unique in Los Angeles, considering there are no major banks based in the county. Increasingly, commercial banks are replaced by alternative lenders, especially in real estate. Throughout the U.S., the number of physical banks has nearly halved in the past twenty years.⁵⁵ These factors mean that occupations in the financial services sector are increasingly turning away from traditional roles – such as bank tellers – and spreading into the alternative lending, online, and insurance realms.

For Los Angeles, employment in the financial services sector is expected to grow by 3% over the next five years. Like many sectors, this growth will be spurred by a changing composition of occupation and job activities related to finance, as well as changing demands for skillsets.

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
Business Operations Specialists	Business Operations Specialist and Business Development	43,095	45,413	\$38.26	\$35.04
The Downey Made Small Business/Entrepreneurs Apprenticeship Program provide learners marketing skills needed to execute social media marketing campaigns. During the program's 24 months' duration, participants are introduced to career pathways in digital marketing strategy, analytics and					

⁵² https://www.dir.ca.gov/databases/das/results_aigdetail.asp?varOcclId=3077

⁵³ http://www.swctf.org/home/sc_index.html

⁵⁴ file:///C:/Users/41173/Documents/EWDD/Final_CCW_Report_Web_10_3%20with%20highlights.pdf

⁵⁵ file:///C:/Users/41173/Documents/EWDD/Final_CCW_Report_Web_10_3%20with%20highlights.pdf

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
data reporting, content strategy and development, and lead generation. Participants are paid a starting salary of \$11 per hour. ⁵⁶					
Market Research Analysts and Marketing Specialists	Social Media Marketing	30,601	34,548	\$33.73	\$30.99
Surplus Service certifies those that finish the Social Media Marketing apprenticeship with a Marketing Analyst Certification. Programs last ten months in duration and are paid an initial salary of \$11.00 an hour. ⁵⁷ The certifying body is the American Academy of Project Management.					

Green Technology

According to the Los Angeles Times, California is the most proactive state in developing a clean-energy economy and promoting clean technology, including through measuring energy productivity, electricity generated from renewables, and reductions in carbon intensity. In California, solar energy generation has grown 1,378% in the past five years.⁵⁸ As a national leader in clean technology, California has more than \$1 billion invested in cleantech programs including sustainable development, renewable energy, and clean transportation – which spurs the generation of many green manufacturing jobs.

The “greentech” and “cleantech” industries have the propensity to create well-paying jobs while allowing the state to take a global leadership role in sustainability. Green job creation is witnessed in sectors including clean transportation, smart water systems, renewable energy, alternative fuels, and technology development. Green tech jobs can range from solar panel system installation to occupations focused on electric power and bio-fuels. Over the past decade, elements of green tech, sustainability, and clean manufacturing have been brought into a wide range of sectors. Yet, the ever-increasing demand for green/clean tech indicates an upsurge in career pathways which are being developed for this sector. While this is promising for the sector, it is often challenging to quantify the number of jobs involved in green technology – or what even constitutes a “green tech” job. It is also makes difficult identifying apprenticeship programs which train participants on green technology use, since the skillsets required in this sector will likely be industry-specific. For instance, while no apprenticeship programs are explicitly labelled as being in the “Green Technology” sector, the California Workforce Education and Training Needs Assessment concluded that two-thirds of direct jobs in energy efficiency are expected to be in the construction trade.⁵⁹ Thus, while there are no identified registered apprenticeships in Green Technology in Los Angeles, it is plausible other registered apprenticeship programs incorporate aspects of green technology teaching into their trades.

As of 2010, the California Apprenticeship Council requires all crafts to add green components to Minimum Industry Training Criteria – including within the building and construction trades.

⁵⁶ https://www.dir.ca.gov/databases/das/results_aigdetail.asp?varOcclid=8628

⁵⁷ https://www.dir.ca.gov/databases/das/results_aigdetail.asp?varOcclid=8856

⁵⁸ <http://www.latimes.com/business/la-fi-california-clean-energy-20160701-snap-story.html>

⁵⁹ <https://www.dir.ca.gov/CAC/ReportsPublications/CACNewsletter3rdQuarter2013.pdf>

Apprenticeship programs have begun modifying their standards to require green components to training and curricula.

Hospitality and Entertainment

The Los Angeles Basin continues to retain a competitive advantage in the hospitality and entertainment sectors. Demand for middle-skill workers is projected to continue to drive job openings, including for thousands of middle-skilled workers employed within the entertainment industry, such as audio and video equipment technicians and film and video editors.⁶⁰ While the demand for middle-skilled workers in this industry is not expected to change, the skillsets of these workers likely will. New distribution technologies, part of the specialized digital media industry, are forecasted to change the skillsets required by workers.

Employees involved in both the entertainment and digital media industries are among the highest paid in the regional economy. On average, workers are compensated more than double the regional average across other industries. However, averages mask the large variation in wages which exist within this sector and are skewed by the very high earners at the top. While averages may be misleading, growth percentages paint a clearer picture. Jobs in entertainment have grown four times as fast as compared to Los Angeles' total economy. Los Angeles alone employs over three quarters of all entertainment professionals within California, and nearly 20% of nationwide entertainment employment.⁶¹ In Los Angeles, 68% of the sector is employed within the motion picture and recording industries.⁶²

While several apprenticeships exist for occupations in the entertainment industry – including for set designers, makeup artists, and cosmetologists, *few currently exist for more traditional hospitality jobs including an absence of concierge services programming.*

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
Electrical and Electronics Engineering Technicians	Electronic Systems Technician/Voice Data Video	3,833	3,764	\$33.77	\$32.46
Participants in this apprenticeship can receive several certifications including as a Commercial Audio Technician, Video Security Systems Technician, Associate Electronics Technician, and Certified Engineering Technician for Audio Systems.					
Electrician	Inside Wireman	15,629	17,376	\$29.67	\$28.98
Electrician apprentices also can become Motion Picture Studio Electricians (Journeyman Wiremen). This program lasts 60 months and has a starting salary of \$14.74 per hour. The program focuses on studio electrical work including lighting, installation, maintenance testing and repairs, and public address. ⁶³					

⁶⁰ https://ccworkforce.org/wp-content/uploads/2018/02/LAEDC-DME-Report-0209_spreads-low-res.pdf

⁶¹ https://ccworkforce.org/wp-content/uploads/2018/02/LAEDC-DME-Report-0209_spreads-low-res.pdf

⁶² https://ccworkforce.org/wp-content/uploads/2018/02/LAEDC-DME-Report-0209_spreads-low-res.pdf

⁶³ <https://www.csatf.org/40jac.shtml>

Matching Occupation	Apprenticeship	2018 Jobs	Projected 2028 Jobs	Avg. Hourly Earnings	Median Hourly Earnings
Makeup Artists, Theatrical and Performance	Makeup Artist (Theatrical and Performance)	2,331	2,309	\$35.14	\$32.44
Participants in this apprenticeship are paid a starting wage of \$10.50 per hour, and are required to complete an 18-month program. They receive certification through the TNN Beauty, Barbering, Cosmetology & Makeup Artistry U.C.A. ⁶⁴ The program takes an “Earn while you learn” approach, where participants are under supervision by a State licensed trainer. ⁶⁵					
Set and Exhibit Designers	Exhibit Builder	3,223	3,261	\$29.61	\$25.70
Often, set designers begin their career with a three to four-year apprenticeship program in carpentry. This allows the individual to learn both traditional carpentry and related skills, including in welding and rigging, which are valuable when entering the entertainment industry as a set builder for television, film, and theatrical productions and other events. ⁶⁶					

Best Practices and Missing Industry Potential for Los Angeles County

ICF conducted a research of promising practices in each of the 11 high growth industries to identify apprenticeship training programs existing elsewhere throughout the United States, yet which are currently not offered in Los Angeles County. A full list of potential registered apprenticeship programs for Los Angeles – broken down by sector – is available in Appendix A. ICF then created a gap analysis to report what apprenticeship programs may be underrepresented in the Los Angeles Region. We compared the real-time job postings in these missing fields to identify which where the highest in-demand skills. ICF then conducted a review of Workforce Innovation and Opportunity Act (WIOA) funded programs within the County. This identified hundreds of existing training programs

which could be upscaled into registered apprenticeship programs (See Appendix B for full list). A brief manual, including steps required when creating a registered apprenticeship program, is provided in Appendix C.

Advanced Manufacturing

Best Practices Outside of Los Angeles

The Industrial Manufacturing Technician Apprenticeship (IMT) has an “earn-and-learn” approach, where apprentices are full-time employees and earn wages during training. Employees undertake 3,000 hours of structured technical instruction, 2,736 hours of on-the-job training, and 264 hours of related technical instruction. Training leads to credentials including the Journey Worker Credential, a Certified Production Technician certificate, or college credit toward an Associate’s degree (Scott, 2016). This helps entry-level workers obtain the technical skills required without forcing them back to school. The Industrial

⁶⁴ https://www.dir.ca.gov/databases/das/results_aigdetail.asp?varOcclId=8124
⁶⁵ <https://www.tnnbeauty.com/academy/>
⁶⁶ https://study.com/articles/Begin_a_Career_in_Set_Design_Information_and_Requirements.html

Manufacturing (IMT) Apprenticeship helps fuel the need for skilled workers in advanced manufacturing production. Apprentices gain on-the-job learning from journey worker mentors about manufacturing work processes, as well as partake in classroom education and assessments. Participants earn a living wage while learning core skills related to advanced manufacturing – as well as academic skills they can use in the future to pursue a degree.⁶⁷

Advanced manufacturing is not explicitly promoted through apprenticeships in Los Angeles. Rather, apprenticeships focus on a specific industry related to manufacturing, where participants may be taught about components of advanced manufacturing – such as clean manufacturing process technologies. In contrast, the National Advanced Manufacturing Apprenticeship Partnership, or “Apprenticeship Works!”, makes clean manufacturing the critical component of all its industry apprenticeship programs. There are programs available for 17 occupations including for Electricians, 3D Printing Technicians, Quality Control Technicians, and Die Setters.⁶⁸

The manufacturing industry often struggles in promoting manufacturing as a career pathway. Manufacturing jobs are often misconstrued as being low-skilled, highly physical, and dangerous. To reduce these biases, the Pathways to Prosperity Network provides high school students information in fields including advanced manufacturing, as well as work-based learning opportunities that are aligned with local labor market needs.⁶⁹ Students are provided information about potential career pathways in this field. Employers work closely with educators to create a technology curriculum, provide equipment, and disseminate information about manufacturing job opportunities to students.

Missing Industry Potential

<i>3D Printing Technician</i>	<i>Provided through Apprenticeship Works! across the country</i>
<i>Welding Technician</i>	
<i>Engineering Assistant</i>	
<i>Robotics Technician</i>	
<i>Composites Technician</i>	
<i>Airframe Mechanic</i>	
<i>Press Operator</i>	

Apprenticeships in advanced manufacturing which LA does not currently have, but are promising career pathways, are included in the table. Each specific apprenticeship requires its own program including length of apprenticeship, mandatory outcomes, and competencies required to receive certification. Example outlines for each of these occupations can be found on Apprenticeship Works! As previously

stated, advanced manufacturing is not explicitly promoted in apprenticeships located in Los Angeles. The County could encourage entry into this sector through promoting clean manufacturing as an essential training component of manufacturing apprenticeships, as done by Apprenticeship Works!.

Additionally, the DOL indicates the following manufacturing occupations have previously benefitted from apprenticeship programs:⁷⁰

- Experimental Test Mechanic
- Tool and Die Hardener
- Job Molder
- Machine Repairer
- Stationary Engineer – Power House
- Tool Design

⁶⁷ <https://www.imtapprenticeship.org/industrial-manufacturing-technicians/blog/imt-apprentices>

⁶⁸ <http://www.rcbi.org/index.php/apprenticeship>

⁶⁹ <https://jfforg-prod-prime.s3.amazonaws.com/media/documents/Manufacturing-Summit-092915.pdf>

⁷⁰ <https://www.doleta.gov/OA/occupations.cfm>

- Tool Maker
- Spring Manufacturing Set-Up Technician
- Industrial Manufacturing Technician

An employment search for Los Angeles county indicates very few of the above-mentioned occupations are in-demand for the County. However, this may be because search parameters differ. For instance, while apprenticeship programs may train individuals to become job molders, this may not be their official job title.

Los Angeles County job posting data from October 2017 through September 2018 suggests that machinists, insurance sales agents, and first-line supervisors of production and operating workers are in demand within the sector. Based on skill needs for occupations within the advanced manufacturing sector, management, tooling, welding, C (programming language), and Microsoft Excel are areas of potential. A key skill within the advanced manufacturing sector is management, as it was a top requested skill in job postings for various supervisors of production and operating workers, one of the sector's top occupations, and grew at an above-average rate between October 2017 and September 2018. These skills and occupations represent promising areas to expand training via integration into existing apprenticeship programs or inclusion in new programs.

Healthcare, Biosciences and Biotechnology

Best Practices outside of Los Angeles

While Los Angeles has several apprenticeships for a range of healthcare technicians, many other healthcare occupations lack apprenticeship programs. In Washington state, for example, apprenticeships are available to become administrative medical assistants, pharmacists, and restorative aides. MultiCare, a nonprofit organization comprised of four hospitals and additional service centers, sponsors three registered apprenticeship programs with the state.⁷¹ Employees of MultiCare can take in-house training courses and have an opportunity to work with on-site career development specialists. MultiCare provides apprenticeship programs to become Health Unit Coordinators, Computed Tomography Technicians, and Engineering Maintenance Mechanics. For each apprenticeship, the nonprofit works with local community colleges to provide classroom training in combination with on-the-job training. Throughout the training program, the apprentice is paid a lower hourly wage than fully-skilled workers, and are titled as "Helpers". Technician apprentices even receive a monthly stipend of \$1,000 to offset lost wages during the period they are enrolled in classroom learning. Once they complete the training, they receive their full title and pay at MultiCare, allowing the nonprofit to recover some of the costs associated with training new employees.⁷²

In the city of Philadelphia, the Community Health Worker (CHW) apprenticeship program was designed to increase the number of skilled healthcare providers and act as bridge between patients and the healthcare system.⁷³ While CHWs are skilled and undergo formal apprenticeships, they require much less training than typical healthcare occupations. This apprenticeship is a partnership between Temple University Health System and the Temple University Center for Social Policy and Community Development, as well as the District 1199C Training & Upgrading Fund, and the apprenticeship aims to

⁷¹<http://www.ini.wa.gov/TradesLicensing/Apprenticeship/files/pubs/ApprenticeshipsHealthcareIndustryMauldin.pdf>

⁷²<http://www.ini.wa.gov/TradesLicensing/Apprenticeship/files/pubs/ApprenticeshipsHealthcareIndustryMauldin.pdf>

⁷³ https://nchl.memberclicks.net/assets/Apprenticeships/casestudytemple_chw_handout.pdf

provide an intensive, short-term program to economically-disadvantaged students. The apprenticeship is a competency-based model that is rooted in a work-based learning framework. Students undergo 150 hours of in-classroom training, a series of assessments and assignments, a capstone, on-the-job learning experiences, and career coaching.

In Rhode Island, Biomedical Equipment Technicians learn to repair and maintain medical equipment for doctor’s offices, outpatient care facilities, and hospitals. They receive on-the-job training and a living wage that progresses as apprentices develop skills. The American Apprenticeship Initiative helps pave the way for the program by creating a debt-free path for those wishing to develop their skills.⁷⁴ The DOL recommends that apprenticeships can be created for bio-manufacturing technicians, biomedical equipment technicians, and microbiology quality control technicians.⁷⁵ Currently, there are few nationwide apprenticeship programs for the biosciences sector. Los Angeles appears to pave the way due to its registered life sciences apprenticeships, which can be found in Section I of this report.

Missing Industry Potential

According to the DOL, the following occupations already have at least one registered apprenticeship. This means that apprenticeships within these fields are promising and can be beneficial for equipping individuals with industry-relevant skills and training.⁷⁶ Bolded occupations are the ones identified which are recommended to consider for RAs, given the significant number of jobs in these occupations for Los Angeles County:

- Ambulance Attendant (EMT)
- **Certified Nursing Assistant Lattice; Assistant I; Advanced Assistant; Geriatric Assistant; Restorative Assistant; Dementia Assistant**
- Denture Contour Wire Specialist
- Dental Assistant
- Dental Equipment Installation and Service
- Dental Laboratory Technician
- Electro-medical Equipment Repairer
- Emergency Medical Technician
- Embalmer
- Health Care Sanitary Technician
- Health Support Specialist
- **Health Unit Coordinator**
- **Home Health Aide**
- Home Health Director
- **Laboratory Assistant**
- Long-term Care Nurse Manager
- **Medical Assistant**
- Medical Laboratory Technician
- Medical Secretary
- Medical Transcriptionist
- **Nurse, Licensed Practical**
- Optical Instrument Assembler
- **Optician**
- Optician (optical goods)
- Orthotics Technician
- Orthotist
- Orthodontic Technician
- **Paramedic**
- **Pharmacist Assistant**
- Pharmacy Support Lattice
- Pharmacy Service Associate Level I and Technician
- Podiatric Assistant
- Prosthetics Technician

⁷⁴ http://apprenticeshipri.org/career_stories/biomedical-equipment-technician/

⁷⁵ <https://www.doleta.gov/OA/occupations.cfm>

⁷⁶ <https://www.doleta.gov/OA/occupations.cfm> ; <https://www.vcn.org/health-care/get-qualified/resources/apprenticeship-training>

- Senior Housing Manager
- Surgical Technologist
- Veterinary and Laboratory Animal Technician

While Los Angeles has apprenticeships for Data Coordinators and Trial Associates – which teaches individuals the skills needed to become technicians, this underutilizes the potential for apprenticeships in this sector. Apprenticeships should be upscaled for high-demand professions including for Medical Assistants, Laboratory Assistants, Registered Nurses, Nursing Assistants, and Paramedics. This is significant given the number of high-demand sector jobs in Los Angeles alone:

Occupation	Number of Jobs in Los Angeles County in 2018
Registered Nurses	83,958
Licensed Practical and Licensed Vocational Nurses	22,112
Medical Assistants	23,349
Medical and Clinical Laboratory Technologists and Technicians	9,698
Emergency Medical Technicians and Paramedics	4,584
Opticians	2,028

The Training and Upgrading Fund of Philadelphia recommends that all healthcare apprenticeships should be paid and provide hands-on-training while pairing students to professional mentors.⁷⁷ Apprenticeships should also incorporate continuing education requirements after the apprenticeship, as done by MultiCare, who provides up to \$3,000 in tuition assistance for employees to take courses that further their medical career pathways.⁷⁸

Los Angeles County job posting data from October 2017 through September 2018 suggests registered nurses, licensed practical and vocational nurses, and social and human service assistants are top occupations within the healthcare, biosciences, and biotechnology sector. Based on job posting data from the same period, skills with above-average growth that were in-demand in the sector include management, medical assistance, and computer aided design. A key skill within the sector is management, as it is the top common skill included in job postings for registered nurses, a top-posted sector occupation and the skill grew at an above-average rate over the past year. These occupations and skills represent promising areas to include training for individuals via expanding or introducing apprenticeship programs in Los Angeles County.

Information Technology and Security

Best Practices

Wisconsin’s Information Technology (IT) Youth Apprenticeship provides robust training across the information technology and security sector, rather than targeted towards a specific occupation, to equip youth with well-rounded technical skills suitable for a range of IT occupations. Across industries, employers believe young people are not being prepared with work readiness and technical skills necessary for entry into the IT field. To partially remedy this, the IT Youth Apprenticeship Program, developed with the Wisconsin Technical College System and a diverse pool of employers, trains students

⁷⁷ https://nchl.memberclicks.net/assets/Apprenticeships/casestudytemple_chw_handout.pdf

⁷⁸ <http://www.ini.wa.gov/TradesLicensing/Apprenticeship/files/pubs/ApprenticeshipsHealthcareIndustryMauldin.pdf>

directly in standardized skills recognized by the National States' Career Cluster Skill Standards in Information Technology.⁷⁹ Youth apprentices are paid throughout their training and must be covered by their employer's compensation package. On-the-job training is provided through appointed mentors experienced in the field. The program lasts two years, and youth apprentices are required to complete 900 hours of work-based learning; at least 500 hours of learning must take place when classes are held, to integrate classroom instruction with on-site learning. This apprenticeship program emphasizes the role of mentors in shaping youth apprentices' experiences; each mentor is required to abide by a list of responsibilities including routine evaluation of the apprentice's progress and regular communication with their mentee.

The CICESS GP Apprentice program, administered through the Illinois Central College (ICC), trains apprentices in software development – including coding, writing software, and cyber security. This program provides opportunities for students on track to receive their Associate's through ICC to also complete a registered apprenticeship program. At the end of the program, apprentices can receive certifications including SEI Personal Software Process Developer and Associate of Certified Secure Software Lifecycle Professional, in addition to their ICC Associate of Applied Science in Secure Software Development degree. Each semester, students dedicate a block of time for classroom instruction, followed by a couple of weeks working with an employer. It is the first Secure Software Apprenticeship Program in the nation – linking IT knowledge with the ever-growing cyber security industry.

Missing Industry Potential

The DOL indicates registered apprenticeship programs can be suitable for the following occupations:⁸⁰

- Information Technology Specialists
- Master Homeland Security Specialist
- Security Specialists
- Cyber Security Support Technicians
- Private Investigators

While Los Angeles has apprenticeship opportunities for technicians and installers, the County is missing an opportunity to capitalize on some of the key employment drivers in the sector, such as through the cybersecurity industry. Additionally, it may be beneficial to provide a more well-rounded apprenticeship program for IT, which would allow students to gain fundamental skills in software design, coding, and programming while introducing them to a range of available career pathways.

Top posted occupations within the sector, as based on job postings in Los Angeles County between October 2017 and September 2018, include application software developers, various computer occupations, and computer systems analysts. Management and investigation were determined to be in-demand skills for the sector and above-average growth skills within the broader labor market, as based on job postings over the previous year. Within the information technology and security sector, management is a particularly promising area to emphasize within existing or new training programs, as the skill had above-average growth within the broader labor market and is the most prominent common skill requested for all of the above highlighted top occupations in the sector.

Logistics and Utilities

⁷⁹ https://dwd.wisconsin.gov/youthapprenticeship/pdf/it/app_b.pdf

⁸⁰ <https://www.doleta.gov/OA/occupations.cfm>

Best Practices

Illinois' Harper College provides apprenticeships in Supply Chain Management and Logistics, teaching participants a range of skills including purchasing raw materials for manufacturing products, storing inventory, managing warehouse operations, shipping, and transportation, planning for demand, and providing customer service. It is a two-year program, and students participate in classroom learning and work on-site each week. Each participant is paired with a dedicated mentor during on-the-job training. Apprentices who complete the program earn an AAS degree in Supply Chain Management and Logistics from the Department of Labor. They are additionally eligible to sit for certifications in Inventory Management, Warehouse Operations, Transportation, Procurement and Supply Chain, Demand Planning, and Customer Service, among others.⁸¹

For utilities, the National Electrical Trade Council (NETCO) promotes apprenticeship opportunities and journeyman skills training across Canada's electrical industries – with a focus on Construction Electricians, Industrial Electricians, and Powerline Technicians. Apprentices spend 85% of their time in on-the-job training placements, with 15% spent on in-classroom learning.⁸² It is recognized as a best practice in apprenticeship administration due to its focus on reducing high failure rates through providing supplemental training after completion of program, providing public recognition after completion of apprenticeship, and by addressing the remedial skill needs of apprentices. For example, apprentices often fail the final written exam due to a lack of foundational-level math skills or because of a lack of experience with multiple-choice exams. NETCO addresses these issues by providing supplemental program and classroom instruction to participants. For more detail about these programs, please read NETCO's Best Practices Framework.

Missing Industry Potential

According to the DOL, Registered Apprenticeship programs have been made for the following occupations, indicating their suitability. Bolded occupations are the ones identified which are recommended to consider for RAs, given the significant number of jobs in these occupations for Los Angeles County:⁸³

- Electrical Drafter
- Electric Meter Installers, Repairers, Testers
- **Electrical Technician**
- **Electrician**
- Electric Tool Repairer
- Electronics Utility Worker
- Electroplater
- Electro-mechanic Inspector
- Marine Electrician
- Logistics Engineer
- **Wastewater Systems Operator**
- **Water Treatment Plant Operator**
- Telecommunications Technician
- **Telecommunications Tower Antenna & Line Foreman and Lead**
- Cable Television Installer
- Gas Main Fitter
- Gas Meter Mechanic
- Gas Regulator Repairer
- Oil Field Equipment Mechanic
- Rigger (for Ships and Boats)
- Ship Fitter
- Supercargo

⁸¹ <http://www.harperapprenticeships.org/news/apprenticeship/logistics-supply-chain-management-training/>

⁸² https://www.ceca.org/documents/Guide_to_Best_Practices_for_JACs_2nd_Edition_August09.pdf

⁸³ <https://www.doleta.gov/OA/occupations.cfm>

- Utilities System Repair Operator
- Utility Locator Technician

Occupation	Number of Jobs in Los Angeles County in 2018
Electricians	15,629
Telecommunications Equipment Installers and Repairers	11,414
Electrical, Electronic, and Electromechanical Assemblers	6,846
Electrical and Electronics Engineering Technicians	3,840
Water and Wastewater Treatment Plant and System Operators	2,038
Electrical Powerline Installers and Repairers	1,896

Should Los Angeles County want more information on upscaling logistics apprenticeships, TransPORTS provides technical assistance for those seeking to establish logistics, transportation, and distribution apprenticeship programs.⁸⁴ The program, based out of South Central Louisiana Technical College, provides funding to offset required costs, technical assistance to help build an effective apprenticeship program, sponsorship, connections to educational providers and curriculum developers, guidance for additional funding opportunities, and various outreach tools. The program aims to reduce the amount of paperwork, administrative delays, and lack of knowledge on building a successful apprenticeship program.

Los Angeles County job posting data from October 2017 through September 2018 suggests that management analysts, various computer occupations, and various managers are top-posted occupations within the sector. Based on data from the same period, electrical engineering and management are in-demand skills within the sector and showed above-average growth within the broader labor market. Management represents a particularly promising skill to reinforce within new or existing apprenticeship programs, as the skill grew at an above-average rate between October 2017 and September 2018 and is the top common skill for all three of the above listed top posted occupations in the sector. If included or expanded in local apprenticeship programs, training for these promising skills and occupations may better prepare job seekers within the region to attain jobs and advance within the Logistics and Utilities sector in L.A. County.

Construction

Best Practices

Despite Alberta being a small province, the Construction Owners Association of Alberta (COAA) trains 20% of Canada’s apprentices.⁸⁵ Most apprentices’ time, 80%, is spent in on-the-job placements under direct supervision of a journeyman. This program emphasizes goal-setting on behalf of all certified journeymen who teach apprentices. In addition to goal setting, the program emphasizes clear communication and instruction, guidance in decision-making, and patience throughout the teaching process. Apprentices are to maintain a Blue Book which helps track and document the apprentice’s progress. It contains tasks, activities, and functions required for the trade, as well as the course outline.

⁸⁴ <http://transportsapprenticeship.com/>

⁸⁵ <https://www.coaa.ab.ca/COAA-Library/WFD-APP-CBP-01-2005-v1%20Apprentice%20Training%20Guide.pdf>

Apprentices record the hours spent during training, and are required to have journeymen sign off to track their progress. First-year apprentices earn about half of the journeyman’s wage, with progressive wage increases as training progresses. Financial management is stressed throughout the program to ensure apprentices do not drop out due to poor budgeting of their salaries. Additionally, financial assistance grants – from the Skills Investment programs of Alberta Human Resources and Employment – are available for qualifying apprenticeships. For more detail, please see the Construction Owners Association of Alberta (COAA)’s booklet.

The Ivanpah Solar Electric Generating System, located in the Californian desert, represents the world’s largest solar plant. During the four years it took to complete construction, the plant employed 2,000 construction workers through Bechtel Construction. Out of these workers, it employed 400 apprentices daily in twelve different construction crafts.⁸⁶ Projects such as this represent a huge potential for apprentices to be trained on-the-job in a specific industry while working within the green tech sector – which not only benefits their future career pathways and skills development, but also helps to build California’s energy-efficient future.

Missing Industry Potential

There are numerous opportunities for construction occupations to begin apprenticeship programs. In addition to what Los Angeles has already, the DOL recommends the following occupations can also be suitable for registered apprenticeship programs⁸⁷. Bolded occupations are the ones identified which are recommended to consider for RAs, given the significant number of jobs in these occupations for Los Angeles County:

- Assembly Technician
- Blacksmith
- Boilermaker Fitter and Mechanic
- Building Maintenance Repairer
- **Bridge Carpenter**
- Cabinetmaker
- Cable Splicer
- Advanced Systems Carpenter
- Roofer Specialist
- Acoustical Specialist
- **Interior Systems Carpenter**
- Mold Carpenter
- Piledriver
- Ceramic Tile Installer
- Composite Fitter Mechanic
- **Construction Equipment Mechanic**
- Dock and Wharf Builder
- Architectural Drafter
- Commercial Drafter
- Fastener Technologist
- Field Services Engineer
- Field Tech Inspector (concrete, masonry, asphalt, welding, fireproofing)
- Floor Layer and Coverer
- Form Builder
- Foundry Metallurgist
- **Building Inspector**
- Insulation Worker
- Interior Systems Carpenter
- Metal Fabricator
- Model and Mold Maker
- Mold Setter and Designer
- Mosaic Worker
- Heavy Construction Equipment Mechanic
- Ornamental Iron and Metal Worker
- Patternmaker
- Pewter Caster, Fabricator, Finisher
- Plasterer
- Roofer

⁸⁶ <https://www.dir.ca.gov/CAC/ReportsPublications/CACNewsletter3rdQuarter2013.pdf>

⁸⁷ <https://www.doleta.gov/OA/occupations.cfm>

- Scaffold Erector
- Screw-Machine Operator
- Stonecutter
- Stone-Lathe Operator
- Structural Metal Fabricator and Fitter
- Structural Steel/Iron Worker
- Timber Framing
- Welder
- Welder-Fitter
- Well Drill Operator

Apprenticeships training carpenters, welders, and roofers should be considered for Los Angeles, given the high number of jobs in these fields:

Occupation	Number of Jobs in Los Angeles County in 2018
Carpenters	35,747
Welders, Cutters, Solderers, and Brazers	8,351
Roofers	4,548
Construction and Building Inspectors	3,858
Plasterers and Stucco Masons	1,828

However, many registered apprenticeships train participants in a particular skill suitable to be used in the construction industry generally. For instance, it may be highly valuable to provide Form Builder apprenticeships, even though few individuals go on to become “form builders” as an occupation title; rather, they may be absorbed into the general construction industry. Thus, the list of potential registered apprenticeships for the construction sector requires careful consideration.

Based on Los Angeles County job posting trends between October 2017 and September 2018, prominent occupations within the sector were construction managers, first-line supervisors of construction trades and extraction workers, and cost estimators. Over the same period, composite materials, computer aided design, management, construction, driving, Microsoft Excel, and lathes were in-demand skills for sector occupations and showed above-average growth within the broader Los Angeles County labor market. Management and construction, skills which grew at an above average rate over the period studied, were two of the top requested skills among the three most posted sector occupations. These skills and occupations represent promising areas to introduce training via integration into existing RAs or through the creation of new apprenticeship programs.

Entertainment and Hospitality

Best Practices

Jobs for the Future (JFF) works with the American Hotel and Lodging Association, as well as the National Restaurant Association Education Foundation, to generate national Hospitality Sector Apprenticeships.⁸⁸ The Hospitality Sector Registered Apprenticeship (HSRA) program, started in 2016, aims to break down assumptions about what sectors apprenticeships are valuable for. Working with large employers including Hilton and Hyatt, they provide training for high-level hospitality positions including hotel and restaurant general managers. HSRA represents the first apprenticeship of its kind which specifically focuses on the restaurant, foodservice, and hospitality industries.

⁸⁸ <https://center4apprenticeship.jff.org/resources/new-generation-finds-opportunity-hospitality/?industries=hospitality&issues=career-pathways&page=1>

The Opportunities for Youth in Hospitality Report indicates the Hospitality sector is uniquely positioned to address youth unemployment due to the sector’s high growth rates and numerous entry-level opportunities. However, it becomes more difficult when getting youth into career pathways in the hospitality field; often individuals are unaware of the potential for career advancement, or lack the tools and knowledge to transition to better-paid and higher-status jobs within this industry.⁸⁹ Hilton Worldwide and the International Youth Foundation (IYF) have begun developing a Youth Well-Being Index and a Hospitality Industry Impact Framework to better measure how to recruit and train individuals for hospitality careers.

Missing Industry Potential

While Los Angeles has several apprenticeships for the entertainment industry, including for exhibit builders, makeup artists, and cosmetologists, the city lacks in hospitality apprenticeships. See potential occupations which could be accompanied by apprenticeship programs below.⁹⁰ Bolded occupations are the ones identified which are recommended to consider for RAs, given the significant number of jobs in these occupations for Los Angeles County:

- **Food Service Manager**
- **Chief Cook**
- **Baker**
- Pastry Cook
- Hotel Associate
- Hotel Manager
- **Lodging Manager**

In addition, there are several occupations in Entertainment which have RAs identified in other parts of the country. Given Los Angeles’ pivotal role in the Entertainment field, apprenticeships could also be considered for the following occupations:

- Sound Mixer
- **Sound Technician**
- Stage Technician
- Wardrobe Supervisor
- Hair Stylist

Apprenticeships for food service managers and bakers - as well as entertainment apprenticeships including for sound technicians and hair stylists - should be considered for Los Angeles given the county’s numerous jobs available in these occupations. The Opportunities for Youth in Hospitality Report suggests that apprenticeships in hospitality, particularly in the food services industry, should be seriously considered. Apprenticeships which train individuals in skills needed to advance within the hospitality industry may retain young employees and encourage talented apprentices to make a career within the industry rather than seeking future employment in other industries. Thus, apprenticeships have the potential to affect all those included in the “Food Preparation and Serving Workers” occupation, if they are encouraged to pursue apprenticeships.

Occupation	Number of Jobs in Los Angeles County in 2018
Combined Food Preparation and Serving Workers and Supervisors (Including Fast Food)	101,202
Cooks (Restaurant, Fast Food, Institution and Cafeteria, Private Household, and Short Order)	97,471
Hairdressers, Hairstylists and Cosmetologists	36,552

⁸⁹ <http://news.hiltonworldwide.com/index.cfm/misc/youth-report>

⁹⁰ <https://www.doleta.gov/OA/occupations.cfm>

Occupation	Number of Jobs in Los Angeles County in 2018
Bakers	8,348
Chefs and Head Cooks	7,935
Lodging Managers	4,508
Sound Engineering Technicians	4,857

The abundance of jobs within the Entertainment and Hospitality sector make clear the benefit of apprenticeship programs to introduce workers into these jobs. Los Angeles County job posting data from October 2017 to September 2018 show first-line supervisors of food preparation and serving workers, combined food preparation and serving workers, and restaurant cooks to be the most posted occupations in the sector. Based on job posting trends over this same period, management, an above-average growth skill within the county’s broader labor market, was the most requested common skill for supervisors of food preparation and serving workers, one of the sector’s most posted occupations. These occupations and skills, especially management, represent key areas to reinforce or introduce within training for hospitality and entertainment occupations.

Financial Services

Best Practices

The Zurich Insurance Program is the first of its kind in the U.S. to offer apprenticeships in the financial services sector for aspiring professionals. It markets itself as “college without debt”, allowing participants to graduate with an Associate of Applied Science degree in business.⁹¹ At onset, students dedicate two days a week to classroom learning, and three days to on-the-job training in the office. By the end of the two-year program, students have transitioned to working full-time at their job at Zurich. They receive the designation of a Department of Labor Certified Insurance Apprentice, are equipped with the skills and credentials for an insurance career, and transition straight to full-time employment within the company that trained them. For more information on this highly efficient program, please visit Zurich’s [website](#).

Missing Industry Potential

Los Angeles has very few apprenticeship programs for those wishing to enter the financial services sector. It is recommended that apprenticeship programs be created for insurance-related occupations, as this industry is experiencing noted growth. Please see below for apprenticeship positions that are already available in other parts of the county for financial services occupations, as indicated by the DOL. Bolded occupations are the ones identified which are recommended to consider for RAs, given the significant number of jobs in these occupations for Los Angeles County:⁹²

- **General Insurance Associate**
- Information Assurance Specialist
- Financial Management Specialist (Military only)
- Teller

⁹¹ <https://www.zurichna.com/en/careers/apprentices>

⁹² <https://www.doleta.gov/OA/occupations.cfm>

Occupation	Number of Jobs in Los Angeles County in 2018
Insurance Sales Agents	38,854
Securities, Commodities, and Financial Services Sales Agents	33, 088
Tellers	11,442
Insurance Claims and Policy Processing Clerks	10,973
Personal Financial Advisors	50,934
Insurance Underwriters	1,503

Particularly, Insurance Associate and Financial Management apprenticeships should be considered for Los Angeles, given the high number of jobs available in these fields. Additionally, apprenticeships to become tellers can also be considered, but the number of physical banks continues to decrease which will impact this occupation in the future.

Based on ICF Research the following high-demand skills and occupations could be well situated to develop a registered apprenticeship program.

Conclusion

This report provides an assessment of current apprenticeship opportunities within Los Angeles’ eleven high-growth sectors, as well as identification of national best practices and a description of components important when establishing new apprenticeships. It is designed to provide the City’s Economic and Workforce Development Department Ad Hoc Committee on Apprenticeships an overview of these eleven sectors, serving as a resource to encourage upscaling the County’s registered apprenticeships.

While some industry clusters – notably for construction occupations – currently support robust registered apprenticeship programs, the majority of these eleven sectors report few opportunities for local apprenticeships. Most noticeably, an upscale of RAs in the Healthcare, IT/Security, Construction, and Logistics sectors are encouraged due to high current and future job projections; promising career advancement opportunities; previous success with establishing RAs for specific occupations within these sectors, as reported by the DoL; and promising labor market data from the most recent year indicating above average skill growth and high-need occupations within these sectors. While these sectors are highlighted, all eleven sectors have multiple occupations which can benefit from the establishment of local apprenticeship programs.

Apprenticeship programs are valuable for all stakeholders involved. Apprentices benefit by learning relevant skills and receiving training directly from industry partners and employers. Contrary to the contemporary university landscape, participants receive certifications without paying tuition or large fees but rather by earning money as they participate in training. Employers benefit because they have direct access to an employment pipeline that produces workers who are up-to-date with industry advancements and have been trained in the qualifications needed to succeed professionally. RAs benefit the local economy as a whole by matching industry supply to demand. For Los Angeles, this means reducing the middle-skill gap across its fastest-growing industries, insuring that the Basin continues to

flourish economically, and providing promising career pathway opportunities for the wellbeing of all its residents.

Appendix A: Untapped Registered Apprenticeship Programs

Based on existing Registered Apprenticeships existing within the U.S. as identified by the Department of Labor

Sector	Untapped Apprenticeship	Matching Occupation	Top Skill
<i>Advanced/Clean Manufacturing</i>	3D Printing Technician	51-5112.00 - Printing Press Operators	Management (15%)
<i>Advanced/Clean Manufacturing</i>	Welding Technician	51-4121.06 - Welders, Cutters, and Welder Fitters	Welding (52%)
<i>Advanced/Clean Manufacturing</i>	Engineering Assistant	17-3029.02 - Electrical Engineering Technologists	C (50%), Java (50%), Microsoft Excel (50%), Computer Literacy (50%), Microsoft PowerPoint (50%)
<i>Advanced/Clean Manufacturing</i>	Robotics Technician	17-3024.00 - Electro-Mechanical Technicians	Troubleshooting (52%)
<i>Advanced/Clean Manufacturing</i>	Composites Technician	51-2091.00 - Fiberglass Laminators and Fabricators	Fiberglass (31%)
<i>Advanced/Clean Manufacturing</i>	Airframe Mechanic	49-3011.00 - Aircraft Mechanics and Service Technicians	Mechanics (41%)
<i>Advanced/Clean Manufacturing</i>	Press Operator	51-4022.00 - Forging Machine Setters, Operators, and Tenders, Metal and Plastic	Tooling (49%)
<i>Advanced/Clean Manufacturing</i>	Environmental Analysts	19-2041.00 - Environmental Scientists and Specialists, Including Health	Management (38%)
<i>Advanced/Clean Manufacturing</i>	Industrial Manufacturing Technicians (Specifically for clean/advanced manufacturing)	17-3026.00 - Industrial Engineering Technicians	Product Quality Assurance (42%)
<i>Healthcare, Biosciences and Biotechnology</i>	Ambulance Attendant (EMT)	29-2041.00 - Emergency Medical Technicians and Paramedics	Cardiopulmonary Resuscitation (37%)
<i>Healthcare, Biosciences and Biotechnology</i>	Certified Nursing Assistant Lattice	31-1014.00 - Nursing Assistants	Nursing (57%)
<i>Healthcare, Biosciences and Biotechnology</i>	Denture Contour Wire Specialist	51-9081.00 - Dental Laboratory Technicians	Computer Aided Design (10%)
<i>Healthcare, Biosciences and Biotechnology</i>	Dental Assistant	31-9091.00 - Dental Assistants	Spanish Language, Cardiopulmonary

Sector	Untapped Apprenticeship	Matching Occupation	Top Skill
			Resuscitation (17%)
<i>Healthcare, Biosciences and Biotechnology</i>	Dental Equipment Installation and Service	49-9062.00 - Medical Equipment Repairers	Management (38%)
<i>Healthcare, Biosciences and Biotechnology</i>	Dental Laboratory Technician	51-9081.00 - Dental Laboratory Technicians	Computer Aided Design (10%)
<i>Healthcare, Biosciences and Biotechnology</i>	Electro-medical Equipment Repairer	49-9062.00 - Medical Equipment Repairers	Management (38%)
<i>Healthcare, Biosciences and Biotechnology</i>	Emergency Medical Technician	29-2041.00 - Emergency Medical Technicians and Paramedics	Cardiopulmonary Resuscitation (37%)
<i>Healthcare, Biosciences and Biotechnology</i>	Embalmer	39-4011.00 - Embalmers	Communications (41%)
<i>Healthcare, Biosciences and Biotechnology</i>	Health Care Sanitary Technician	29-2099.00 - Health Technologists and Technicians, All Other	Cardiopulmonary Resuscitation (21%)
<i>Healthcare, Biosciences and Biotechnology</i>	Health Support Specialist	31-1011.00 - Home Health Aides	Caregiving (32%)
<i>Healthcare, Biosciences and Biotechnology</i>	Health Unit Coordinator	43-6013.00 - Medical Secretaries	Customer Service (29%)
<i>Healthcare, Biosciences and Biotechnology</i>	Home Health Aide	31-1011.00 - Home Health Aides	Caregiving (32%)
<i>Healthcare, Biosciences and Biotechnology</i>	Home Health Director	11-9111.00 - Medical and Health Services Managers	Management (63%)
<i>Healthcare, Biosciences and Biotechnology</i>	Laboratory Assistant	19-4091.00 - Environmental Science and Protection Technicians, Including Health	Management (19%)
<i>Healthcare, Biosciences and Biotechnology</i>	Long-term Care Nurse Manager	11-9111.00 - Medical and Health Services Managers	Management (63%)
<i>Healthcare, Biosciences and Biotechnology</i>	Medical Assistant	31-9092.00 - Medical Assistants	Medical Assistance (57%)

Sector	Untapped Apprenticeship	Matching Occupation	Top Skill
<i>Healthcare, Biosciences and Biotechnology</i>	Medical Laboratory Technician	29-2012.00 - Medical and Clinical Laboratory Technicians	Medical Laboratory (36%)
<i>Healthcare, Biosciences and Biotechnology</i>	Medical Secretary	43-6013.00 - Medical Secretaries	Customer Service (29%)
<i>Healthcare, Biosciences and Biotechnology</i>	Medical Transcriptionist	31-9094.00 - Medical Transcriptionists	Transcription (genetics) (65%)
<i>Healthcare, Biosciences and Biotechnology</i>	Nurse, Licensed Practical	29-2061.00 - Licensed Practical and Licensed Vocational Nurses	Nursing (63%)
<i>Healthcare, Biosciences and Biotechnology</i>	Optical Instrument Assembler	51-9083.00 - Ophthalmic Laboratory Technicians	Management, Operations (50%)
<i>Healthcare, Biosciences and Biotechnology</i>	Optician	51-9083.00 - Ophthalmic Laboratory Technicians	Management (50%), Operations (50%)
<i>Healthcare, Biosciences and Biotechnology</i>	Optician (optical goods)	29-2081.00 - Opticians, Dispensing	Sales (52%)
<i>Healthcare, Biosciences and Biotechnology</i>	Orthotics Technician	51-9082.00 - Medical Appliance Technicians	Orthopedic Surgery (46%)
<i>Healthcare, Biosciences and Biotechnology</i>	Orthotist	29-2091.00 - Orthotists and Prosthetists	Occupational Health and Safety Administration (OSHA) (57%)
<i>Healthcare, Biosciences and Biotechnology</i>	Orthodontic Technician	51-9081.00 - Dental Laboratory Technicians	Computer Aided Design (10%)
<i>Healthcare, Biosciences and Biotechnology</i>	Paramedic	29-2041.00 - Emergency Medical Technicians and Paramedics	Cardiopulmonary Resuscitation (37%)
<i>Healthcare, Biosciences and Biotechnology</i>	Pharmacist Assistant	29-2052.00 - Pharmacy Technicians	Prescription (29%)
<i>Healthcare, Biosciences and Biotechnology</i>	Pharmacy Support Lattice	29-2052.00 - Pharmacy Technicians	Prescription (29%)

Sector	Untapped Apprenticeship	Matching Occupation	Top Skill
<i>Healthcare, Biosciences and Biotechnology</i>	Pharmacy Service Associate Level I and Technician	29-2052.00 - Pharmacy Technicians	Prescription (29%)
<i>Healthcare, Biosciences and Biotechnology</i>	Podiatric Assistant	31-9092.00 - Medical Assistants	Medical Assistance (57%)
<i>Healthcare, Biosciences and Biotechnology</i>	Prosthetics Technician	51-9082.00 - Medical Appliance Technicians	Orthopedic Surgery (46%)
<i>Healthcare, Biosciences and Biotechnology</i>	Senior Housing Manager	11-9111.00 - Medical and Health Services Managers	Management (63%)
<i>Healthcare, Biosciences and Biotechnology</i>	Surgical Technologist	29-2055.00 - Surgical Technologists	Surgeries (37%)
<i>Healthcare, Biosciences and Biotechnology</i>	Veterinary and Laboratory Animal Technician	31-9096.00 - Veterinary Assistants and Laboratory Animal Caretakers	Communications (48%)
<i>Information Technology and Security</i>	Information Technology Specialists	15-1142.00 - Network and Computer Systems Administrators	Management (49%)
<i>Information Technology and Security</i>	Master Homeland Security Specialist	11-9161.00 - Emergency Management Directors	Management (67%)
<i>Information Technology and Security</i>	Security Specialists	15-1142.00 - Network and Computer Systems Administrators	Management (49%)
<i>Information Technology and Security</i>	Cyber Security Support Technicians	15-1142.00 - Network and Computer Systems Administrators	Management (49%)
<i>Information Technology and Security</i>	Private Investigator	33-9021.00 - Private Detectives and Investigators	Investigation (66%)
<i>Logistics and Utilities</i>	Electrical Drafter	17-3012.02 - Electrical Drafters	AutoCAD (52%)
<i>Logistics and Utilities</i>	Electric Meter Installers, Repairers, Testers	49-9012.00 - Control and Valve Installers and Repairers, Except Mechanical Door	Preventive Maintenance (41%)
<i>Logistics and Utilities</i>	Electrical Technician	17-3023.03 - Electrical Engineering Technicians	Electrical Engineering (27%)
<i>Logistics and Utilities</i>	Electrician	47-2111.00 - Electricians	Electrical Wirings (29%)
<i>Logistics and Utilities</i>	Electric Tool Repairer	49-2092.00 - Electric Motor, Power Tool, and Related Repairers	Troubleshooting (13%)

Sector	Untapped Apprenticeship	Matching Occupation	Top Skill
<i>Logistics and Utilities</i>	Electronics Utility Worker	51-2022.00 - Electrical and Electronic Equipment Assemblers	Soldering (33%)
<i>Logistics and Utilities</i>	Electroplater	51-4193.00 - Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	Operations (33%)
<i>Logistics and Utilities</i>	Electro-mechanic Inspector	51-9061.00 - Inspectors, Testers, Sorters, Samplers, and Weighers	Management (35%)
<i>Logistics and Utilities</i>	Marine Electrician	47-2111.00 - Electricians	Electrical Wirings (29%)
<i>Logistics and Utilities</i>	Logistics Engineer	17-2112.00 - Industrial Engineers	Management (42%)
<i>Logistics and Utilities</i>	Wastewater Systems Operator	51-8031.00 - Water and Wastewater Treatment Plant and System Operators	Water Treatment (49%)
<i>Logistics and Utilities</i>	Water Treatment Plant Operator	51-8031.00 - Water and Wastewater Treatment Plant and System Operators	Water Treatment (49%)
<i>Logistics and Utilities</i>	Telecommunications Technician	49-2022.00 - Telecommunications Equipment Installers and Repairers, Except Line Installers	Communications (42%)
<i>Logistics and Utilities</i>	Telecommunications Tower Antenna & Line Foreman and Lead	49-9052.00 - Telecommunications Line Installers and Repairers	Chinese Language (55%)
<i>Logistics and Utilities</i>	Cable Television Installer	49-2097.00 - Electronic Home Entertainment Equipment Installers and Repairers	Customer Service (86%)
<i>Logistics and Utilities</i>	Gas Main Fitter	47-2152.01 - Pipe Fitters and Steamfitters	Pipe (fluid conveyance) (23%)
<i>Logistics and Utilities</i>	Gas Meter Mechanic	49-9012.00 - Control and Valve Installers and Repairers, Except Mechanical Door	Preventive Maintenance (41%)
<i>Logistics and Utilities</i>	Gas Regulator Repairer	49-9012.00 - Control and Valve Installers and Repairers, Except Mechanical Door	Preventive Maintenance (41%)
<i>Logistics and Utilities</i>	Rigger (for Ships and Boats)	49-9096.00 - Riggers	Heavy Equipment (44%)
<i>Logistics and Utilities</i>	Ship Fitter	51-2041.00 - Structural Metal Fabricators and Fitters	Structural Steel (41%)
<i>Logistics and Utilities</i>	Supercargo	43-5061.00 - Production, Planning, and Expediting Clerks	Management (38%)
<i>Logistics and Utilities</i>	Utilities System Repair Operator	17-3023.01 - Electronics Engineering Technicians	Test Equipment (33%)

Sector	Untapped Apprenticeship	Matching Occupation	Top Skill
<i>Construction</i>	Assembly Technician	51-2031.00 - Engine and Other Machine Assemblers	Fuel Injection, Engine Tuning, Microsoft Excel (46%)
<i>Construction</i>	Building Maintenance Repairer	49-9071.00 - Maintenance and Repair Workers, General	Management (32%)
<i>Construction</i>	Bridge Carpenter	47-2031.02 - Rough Carpenters	Carpentry, Construction (65%)
<i>Construction</i>	Cabinetmaker	51-7011.00 - Cabinetmakers and Bench Carpenters	Cabinetry (41%)
<i>Construction</i>	Cable Splicer	49-9051.00 - Electrical Power-Line Installers and Repairers	Transformers (electrical) (84%)
<i>Construction</i>	Advanced Systems Carpenter	47-2031.00 - Carpenters	Carpentry (54%)
<i>Construction</i>	Roofer Specialist	47-2181.00 - Roofers	Roofing (42%)
<i>Construction</i>	Acoustical Specialist	47-2081.00 - Drywall and Ceiling Tile Installers	Construction (58%)
<i>Construction</i>	Interior Systems Carpenter	47-2031.01 - Construction Carpenters	Carpentry (37%)
<i>Construction</i>	Mold Carpenter	47-2031.01 - Construction Carpenters	Carpentry (37%)
<i>Construction</i>	Piledriver	47-2031.02 - Rough Carpenters	Carpentry, Construction (65%)
<i>Construction</i>	Ceramic Tile Installer	47-2044.00 - Tile and Marble Setters	Tiling (44%)
<i>Construction</i>	Composite Fitter Mechanic	51-2041.00 - Structural Metal Fabricators and Fitters	Structural Steel (41%)
<i>Construction</i>	Construction Equipment Mechanic	49-3042.00 - Mobile Heavy Equipment Mechanics, Except Engines	Mechanics (68%)
<i>Construction</i>	Dock and Wharf Builder	47-2031.02 - Rough Carpenters	Carpentry, Construction (65%)
<i>Construction</i>	Architectural Drafter	17-3011.01 - Architectural Drafters	Computer Aided Design (38%)
<i>Construction</i>	Commercial Drafter	17-3011.01 - Architectural Drafters	Computer Aided Design (38%)
<i>Construction</i>	Fastener Technologist	51-4022.00 - Forging Machine Setters, Operators, and Tenders, Metal and Plastic	Tooling (49%)
<i>Construction</i>	Field Services Engineer	49-2094.00 - Electrical and Electronics Repairers,	Test Equipment (38%)

Sector	Untapped Apprenticeship	Matching Occupation	Top Skill
		Commercial and Industrial Equipment	
<i>Construction</i>	Field Tech Inspector (concrete, masonry, asphalt, welding, fireproofing)	47-4011.00 - Construction and Building Inspectors	Construction (63%)
<i>Construction</i>	Floor Layer and Coverer	47-2042.00 - Floor Layers, Except Carpet, Wood, and Hard Tiles	Construction Estimating Software, Estimators, Flooring (25%)
<i>Construction</i>	Form Builder	47-2031.02 - Rough Carpenters	Carpentry, Construction (65%)
<i>Construction</i>	Foundry Metallurgist	17-2131.00 - Materials Engineers	Composite Materials (23%)
<i>Construction</i>	Building Inspector	47-4011.00 - Construction and Building Inspectors	Construction (63%)
<i>Construction</i>	Insulation Worker	47-2131.00 - Insulation Workers, Floor, Ceiling, and Wall	Construction (55%)
<i>Construction</i>	Interior Systems Carpenter	47-2031.01 - Construction Carpenters	Carpentry (57%)
<i>Construction</i>	Metal Fabricator	51-2041.00 - Structural Metal Fabricators and Fitters	Structural Steel (41%)
<i>Construction</i>	Model and Mold Maker	51-4061.00 - Model Makers, Metal and Plastic	3D Modeling, Maya, Prototype (manufacturing) (23%)
<i>Construction</i>	Mold Setter and Designer	51-4072.00 - Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	Molding (44%)
<i>Construction</i>	Mosaic Worker	47-2044.00 - Tile and Marble Setters	Tiling (44%)
<i>Construction</i>	Heavy Construction Equipment Mechanic	49-3042.00 - Mobile Heavy Equipment Mechanics, Except Engines	Mechanics (68%)
<i>Construction</i>	Ornamental Iron and Metal Worker	51-4062.00 - Patternmakers, Metal and Plastic	Management (30%)
<i>Construction</i>	Patternmaker	51-4062.00 - Patternmakers, Metal and Plastic	Management (30%)

Sector	Untapped Apprenticeship	Matching Occupation	Top Skill
<i>Construction</i>	Plasterer	47-2161.00 - Plasterers and Stucco Masons	Filing, Plastering, Construction (42%)
<i>Construction</i>	Roofer	47-2181.00 - Roofers	Roofing (42%)
<i>Construction</i>	Scaffold Erector	47-2061.00 - Construction Laborers	Construction (36%)
<i>Construction</i>	Screw-Machine Operator	51-4034.00 - Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	Lathes (28%)
<i>Construction</i>	Stonecutter	51-9195.03 - Stone Cutters and Carvers, Manufacturing	Multilingualism, English Language, Spanish Language (13%)
<i>Construction</i>	Stone-Lathe Operator	51-9032.00 - Cutting and Slicing Machine Setters, Operators, and Tenders	Packaging and Labeling (28%)
<i>Construction</i>	Structural Metal Fabricator and Fitter	51-2041.00 - Structural Metal Fabricators and Fitters	Structural Steel (54%)
<i>Construction</i>	Structural Steel/Iron Worker	47-2221.00 - Structural Iron and Steel Workers	Structural Steel (54%)
<i>Construction</i>	Timber Framer	47-2031.02 - Rough Carpenters	Carpentry, Construction (65%)
<i>Construction</i>	Welder	51-4121.06 - Welders, Cutters, and Welder Fitters	Welding (52%)
<i>Construction</i>	Welder-Fitter	51-4121.06 - Welders, Cutters, and Welder Fitters	Welding (52%)
<i>Construction</i>	Well Drill Operator	47-5021.00 - Earth Drillers, Except Oil and Gas	Driving (38%)
<i>Entertainment and Hospitality</i>	Food Service Manager	11-9051.00 - Food Service Managers	Restaurant Operation (71%)
<i>Entertainment and Hospitality</i>	Chef De Parti	35-2014.00 - Cooks, Restaurant	Restaurant Operation (43%)
<i>Entertainment and Hospitality</i>	Chief Cook	35-1011.00 - Chefs and Head Cooks	Restaurant Operation (45%)
<i>Entertainment and Hospitality</i>	Baker	51-3011.00 - Bakers	Bakeries (50%)
<i>Entertainment and Hospitality</i>	Pastry Cook	51-3011.00 - Bakers	Bakeries (50%)
<i>Entertainment and Hospitality</i>	Hotel Associate	43-4081.00 - Hotel, Motel, and Resort Desk Clerks	Customer Service (25%)

Sector	Untapped Apprenticeship	Matching Occupation	Top Skill
<i>Entertainment and Hospitality</i>	Hotel Manager	11-9081.00 - Lodging Managers	Management (64%)
<i>Entertainment and Hospitality</i>	Lodging Manager	11-9081.00 - Lodging Managers	Management (64%)
<i>Entertainment and Hospitality</i>	Sound Mixer	27-4014.00 - Sound Engineering Technicians	Pro Tools (10%)
<i>Entertainment and Hospitality</i>	Sound Technician	27-4014.00 - Sound Engineering Technicians	Pro Tools (10%)
<i>Entertainment and Hospitality</i>	Stage Technician	27-4011.00 - Audio and Video Equipment Technicians	Communications (27%)
<i>Entertainment and Hospitality</i>	Wardrobe Supervisor	39-3092.00 - Costume Attendants	Costumes (33%)
<i>Entertainment and Hospitality</i>	Hair Stylist	39-5012.00 - Hairdressers, Hairstylists, and Cosmetologists	Sales (23%)

Appendix B: Training Program Providers

Including Pre-Apprenticeships, Certificate Programs, Postsecondary Awards, Diplomas, and Associate Degrees; Excluding Registered Apprenticeships

Program Name	Program Outcome	Provider Name	Cost
Implementing a Data Warehouse with Microsoft SQL Server 2012	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
.Net Web Application Developer (MCPD/ MCITP)	Certificates < 2yrs.	Integrated Digital Technologies (IDT) - Primary	\$7,500.00
2D Animation	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$7,500.00
A+ Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	ABCO Technology - Primary	\$3,031.00
A+ Certification / Introduction to Cybersecurity	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Monrovia Community Adult School - Primary	\$3,760.00
A+ Computer Repair Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$2,425.00
A+, Network+ and MCSA Windows 8	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$6,695.00

Program Name	Program Outcome	Provider Name	Cost
AAA Institute (TAA)	Sum of all types	AAA Institute - Primary	\$20,000.00
AAS Degree Computer Aided Design and Drafting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles ORT College - Primary	\$14,000.00
AAS Degree Computer Aided Design and Drafting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles ORT College - Satellite	\$14,000.00
AAS Degree in Accounting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles ORT College - Primary	\$14,000.00
AAS Degree in Business Management	Associate's Degree	Los Angeles ORT College - Primary	\$14,000.00
AAS Degree In Digital Media	Associate's Degree	Los Angeles ORT College - Primary	\$14,000.00
AAS Degree in Medical Office Management	Associate's Degree	Los Angeles ORT College - Primary	\$14,000.00
AAS Degree Medical and Clinical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles ORT College - Primary	\$14,000.00
AAS Degree Pharmacy Technology Administration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles ORT College - Primary	\$14,000.00
AAS Degree Substance Use Disorder Counseling (Online Training)	Associate's Degree	InterCoast Colleges - Satellite	\$36,886.00
ABC - LA/ Ventura Chapter	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
ABC Adult School	Sum of all types	ABC Adult School - Primary	\$20,000.00
Accelerated Customer Service Representative	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$900.00
Access 2013 Programming with VBA	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,185.00
Accounting - Bookkeeping	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$2,862.00
Accounting - Computerized	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,976.00
Accounting - Financial Planning	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,999.00
Accounting - Merchandising Transactions	Accounting	ALISON	\$0.00
Accounting - Payroll	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,294.00

Program Name	Program Outcome	Provider Name	Cost
Accounting and Its Use in Business Decisions	Accounting	ALISON	\$0.00
Accounting Certificate of Achievement	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Los Angeles Valley College - Primary	\$5,760.00
Accounting Clerk	Certificates < 2yrs.	ABC Adult School - Primary	\$1,849.00
Accounting Clerk	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$80.00
Accounting Clerk Core	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,512.00
Accounting Clerk I	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,700.00
Accounting Clerk II	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,700.00
Accounting Clerk/ Bookkeeper/ Computerized Accounting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$3,140.00
Accounting Clerk/ Bookkeeper	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$3,802.00
Accounting Clerk/ Technician	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$1,474.00
Accounting Clerk-Computerized Bookkeeper	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$1,952.00
Accounting For Government And Nonprofit Organizations	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RIO HONDO COLLEGE - Primary	\$1,498.19
Accounting Managerial	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,667.00
Accounting, Associate of Occupational Studies	Associate's Degree	Los Angeles Pacific College - Primary	\$15,379.00
Accounting/ Bookkeeping	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$1,350.00
Achieving Personal Success	Personal Development	ALISON	\$0.00
ACT Math Exam	Exam Prep	ALISON	\$0.00
Acting Department	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Lifton Institute of Media Arts and Sciences - Primary	\$7,500.00

Program Name	Program Outcome	Provider Name	Cost
Active Directory® Services with Windows Server®	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Acute Certified Nursing Assistant	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$0.00
Administering Microsoft SQL Server 2012 Databases	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Administering Microsoft® SQL Server® 2014 Databases	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Administering System Center 2012 Configuration Manager	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Administering Team Foundation Server 2010	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Administering the Web Server (IIS) Role of Windows Server	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,950.00
Administering Windows Server 2012	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Administrative Assistant	Certificates < 2yrs.	ABC Adult School - Primary	\$2,325.00
ADMINISTRATIVE ASSISTANT	Certificates < 2yrs.	JVS SoCal - Primary	\$3,900.00
Administrative Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Rancho Adult Education Center - Primary	\$2,630.00
Administrative Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles ORT College - Primary	\$8,612.00
Administrative Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$80.00
Administrative Assistant - Level I	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$1,706.00
Administrative Assistant - Level II	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$2,222.00
Administrative Assistant - Level III	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,621.00
Administrative Assistant and Secretarial Science, General	Not available	Mt. San Antonio College - Primary	\$0.00
ADMINISTRATIVE ASSISTANT WITH VESL	Certificates < 2yrs.	JVS SoCal - Primary	\$3,075.00

Program Name	Program Outcome	Provider Name	Cost
Administrative Assistant, Accelerated Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$2,523.00
Administrative Assistant, Full Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$3,707.00
Administrative Assistant/ Computer Applications Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$4,423.00
Administrative Clerk	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Rancho Adult Education Center - Primary	\$1,940.00
Administrative Dental Assistant Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,245.00
Administrative Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$1,775.00
Administrative Office Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	GDS Institute - Primary	\$9,230.00
Administrative Office Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Primary	\$6,000.00
Administrative Professional Certificate	Certificates < 2yrs.	Pacific West Academy - Primary	\$3,000.00
Administrative Secretary	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$877.50
Adobe - Microsoft Certified Application Program	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$10,000.00
Adobe Certified Expert Web Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$6,500.00
Adobe Photoshop CS6 Essential Tools	Software Tools	ALISON	\$0.00
ADOBE PREMIERE PRO	Certificates < 2yrs.	AAA Institute - Primary	\$6,500.00
ADOBE PREMIEREPRO ADVANCED	Certificates < 2yrs.	AAA Institute - Primary	\$7,500.00
Adobe Web Design with Microsoft Backend Development	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$10,000.00
Advance Private Security	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$1,995.00

Program Name	Program Outcome	Provider Name	Cost
Advanced Algebraic Concepts and Applications in Mathematics	Algebra	ALISON	\$0.00
Advanced Automated Administration with Windows PowerShell®	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
Advanced Biology 1	Biology	ALISON	\$0.00
Advanced Biology 2	Biology	ALISON	\$0.00
Advanced Chemistry 1	Chemistry	ALISON	\$0.00
Advanced CNC Machining	Certificates < 2yrs.	NTMA Training Centers of Southern California - Primary	\$3,975.00
Advanced Construction Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Pomona - Extension (Foundation) - Primary	\$1,775.00
Advanced Core Competencies Construction Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Coastline Community College - Satellite	\$7,500.00
Advanced Drone Operator / Unmanned Aerial Vehicles (UAV) Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$1,695.00
ADVANCED HUMAN RESOURCES MANAGEMENT	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$1,354.30
Advanced I Class A Tractor Trailer and Safety Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Alliance School of Trucking, Inc. - Primary	\$3,900.00
Advanced Machinist Training	Certificates < 2yrs.	NTMA Training Centers of Southern California - Primary	\$13,000.00
Advanced Manufacturing & Electrical Systems	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Mt. San Antonio College - Primary	\$1,082.00
Advanced Manufacturing Fundamentals Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$3,500.00
Advanced Mastercam Programming	Certificates < 2yrs.	NTMA Training Centers of Southern California - Primary	\$3,975.00
Advanced Mathematics 1	Core Maths Skills	ALISON	\$0.00
Advanced Mathematics 2	Core Maths Skills	ALISON	\$0.00
Advanced Neuromuscular Massage Therapist	Certificates < 2yrs.	National Holistic Institute - Satellite	\$8,332.00

Program Name	Program Outcome	Provider Name	Cost
Advanced Paralegal Certificate Program Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$2,353.00
Advanced Personal Fitness Trainer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$3,145.00
ADVANCED PRIMAVERA P6	Certificates < 2yrs.	AAA Institute - Primary	\$3,999.00
ADVANCED PRIMAVERA P6	Certificates < 2yrs.	AAA Institute - Satellite	\$3,999.00
Advanced Private Security 600	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$5,499.00
Advanced Private Security Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$2,057.00
Advanced Professional Massage Therapy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Health Institute - Primary	\$12,200.00
Advanced Program - Medical Coding and Billing Associate	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$7,495.00
ADVANCED SAFETY AND HEALTH CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$5,187.00
Advanced Security Officer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$2,682.00
Advanced Security Officer 126	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bentley-Forbes Security Training Academy Inc. - Primary	\$2,347.00
Advanced Solutions of Microsoft Exchange Server 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Advanced Solutions of Microsoft® SharePoint® Server 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Advanced Windows® Store App Development Using C#	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Advanced Windows® Store App Development Using HTML5 and JavaScript	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00

Program Name	Program Outcome	Provider Name	Cost
AIPB Certified Bookkeeper	Certificates < 2yrs.	OSC Computer Training - Satellite	\$7,768.72
AIR CONDITIONING & REFRIG. JJATC	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Air Conditioning and Refrigeration	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,307.00
Air Conditioning Certificate of Achievement	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Compton Community College - Primary	\$3,957.00
Air Conditioning Technician Trainee	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$2,207.00
Aircraft Fabrication and Assembly Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley College - Primary	\$1,277.90
Aircraft Mechanics	Postsec. Awards/ Cert./ Diplomas; 2-4 yrs.	LAUSD Division of Adult and Career Education - Satellite	\$8,282.35
Airframe and Powerplant Technician	Postsec. Awards/ Cert./ Diplomas; <4 yrs.	Spartan College of Aeronautics & Technology - Primary	\$22,677.00
ALCOHOL & DRUG COUNSELING	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$7,180.66
Alcohol & Drug Counseling Studies (Online Training)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	InterCoast Colleges - Satellite	\$22,585.00
Alcohol and Drug Counseling	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$7,650.00
Alcohol and Drug Counseling Studies	Postsec. Awards/ Cert./ Diplomas; <1 yr.	InterCoast Colleges - Satellite	\$22,585.00
Alcohol and Its Effects on Health	Disease and Disorders	ALISON	\$0.00
Algebra - Functions, Expressions and Equations	Algebra	ALISON	\$0.00
AltairStrickland, LLC	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Alternative Energy Technology Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RIO HONDO COLLEGE - Primary	\$1,562.00

Program Name	Program Outcome	Provider Name	Cost
Amazon Web Services (AWS) Cloud Computing Architecture Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$2,999.00
Amazon Web Services (AWS) Cloud Computing Architecture Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Satellite	\$2,999.00
Amazon Web Services Program	Certificates < 2yrs.	New Horizons Career Development Solutions - Satellite	\$9,850.00
American Aerospace Technical Academy	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$7,495.00
American Career College- Los Angeles (TAA)	Sum of all types	American Career College - Primary	\$20,000.00
American Fitness and Nutrition Academy	Sum of all types	American Fitness and Nutrition Academy - Primary	\$20,000.00
Animated Media Design	Certificates < 2yrs.	ABC Adult School - Primary	\$1,770.00
Animation Department - Motion Capture	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Lifton Institute of Media Arts and Sciences - Primary	\$4,995.00
APARTMENTWORKS	Certificates < 2yrs.	JVS SoCal - Primary	\$3,000.00
APICS Basics of Supply Chain Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,590.00
APICS Certified in Logistics, Transportation and Distribution	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$3,400.00
APICS Certified in Logistics, Transportation and Distribution	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Satellite	\$3,400.00
APICS Certified in Production and Inventory Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$4,000.00
APICS Certified in Production and Inventory Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Satellite	\$4,000.00
APICS Detailed Scheduling and Planning	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,590.00
APICS Execution and Control of Operations	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,590.00
APICS Master Planning of Resource	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,590.00

Program Name	Program Outcome	Provider Name	Cost
APICS Strategic Management of Resoures	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,440.00
Apple Final Cut Pro X - Level 101	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$885.00
Apple OS X Server Essentials	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Apple OS X Support Essentials	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$885.00
Apprenticeship Preparation Program	Apprenticeship Programs	Flintridge Center - Primary	\$5,500.00
Architectural Computer Aided Design and Illustration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$7,500.00
Ardent Services LLC & Ardent Companies Inc.	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Art Department	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Lifton Institute of Media Arts and Sciences - Primary	\$4,995.00
ASP.Net	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00
ASP.Net	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$3,999.00
Associate of Applied Science in Diagnostic Medical Sonography	Associate's Degree	CBD College - Satellite	\$39,993.00
Associate of Applied Science in Occupational Therapy Assistant	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	CBD College - Satellite	\$49,994.00
Associate of Applied Science in Physical Therapist Assistant	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	CBD College - Satellite	\$49,945.00
AUTO CAD AND SOLIDWORKS	Certificates < 2yrs.	AAA Institute - Primary	\$7,499.00
AUTO CAD AND SOLIDWORKS	Certificates < 2yrs.	AAA Institute - Satellite	\$7,499.00
AutoCAD-Level 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,030.00

Program Name	Program Outcome	Provider Name	Cost
Automated Accounting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$525.00
Automating Administration with Windows PowerShell 2.0	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Automating Administration with Windows PowerShell 3.0	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Automobile Mechanic Fundamentals	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$1,128.00
Automotive	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$3,200.00
Automotive & Diesel Technology II + 1 emphasis SMOG -031	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$49,615.00
Automotive & Diesel Technology II + NATT & SMOG -041	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$54,715.00
Automotive & Diesel Technology II + Nissan -030	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$50,615.00
Automotive & Diesel Technology II - 279	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$46,515.00
Automotive Exhaust Emissions Technician (Smog Technician)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$5,049.00
Automotive Maintenance and Light Repair ASE Pre-Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Monrovia Community Adult School - Satellite	\$2,485.00
Automotive Salesman	Certificates < 2yrs.	Cerritos College - Primary	\$1,200.00
Automotive Salesman	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$1,200.00
Automotive Service	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Baldwin Park Adult and Community Education - Primary	\$5,920.00

Program Name	Program Outcome	Provider Name	Cost
Automotive Service Technician (ASE Program)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$4,583.00
Automotive Technician	Certificates < 2yrs.	UEI College - Satellite	\$10,000.00
Automotive Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$5,575.00
Automotive Technician Comprehensive	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	LAUSD Division of Adult and Career Education - Satellite	\$6,395.00
Automotive Technician Emissions Control	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,118.99
Automotive Technician Trainee	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$3,075.00
Automotive Technology II + NATT & SMOG	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$45,215.00
Automotive Technology II + Nissan - 010	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$41,965.00
Automotive Technology II + SMOG - 011	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$40,165.00
Automotive Technology II -179	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$36,615.00
Automotive, Fuel Injection & Electrical with General Automotive Mechanic	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Centro de Estudio Tecnico Automotriz - Primary	\$8,600.00
AWS Certification Prep Program	Certificates < 2yrs.	New Horizons Career Development Solutions - Satellite	\$6,000.00
BA05 - Process Modeling Using BPMN	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
BA06 - Managing and Communicating Requirements for Projects	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
BA07 – Implementing an Agile Project	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00

Program Name	Program Outcome	Provider Name	Cost
BA09 - Managing Requirements for SharePoint Projects	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
BA10 - Understanding Root Cause Analysis	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,395.00
Back Safety	Health and Safety	ALISON	\$0.00
Banking & Finance Bank Operation	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$1,183.00
BankWorks	Certificates < 2yrs.	JVS SoCal - Primary	\$4,800.00
Barber	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	International Academy of Cosmetology - Primary	\$8,086.27
Barber Stylist	Postsec. Awards/ Cert./ Diplomas; 2- 4 yrs.	Hacienda La Puente Adult Education - Primary	\$5,462.00
Barbering	Certificates < 2yrs.	Baldwin Park Adult and Community Education - Primary	\$4,520.50
Barbering	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Cosmetica Beauty and Barbering Academy - Primary	\$8,124.00
Barbering	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	LAUSD Division of Adult and Career Education - Satellite	\$5,418.25
BASIC APPLIED FORENSIC SCIENCE AND CRIME ANALYSIS	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$1,800.00
Basic Beauty Makeup Artistry Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$450.00
Basic Computer Skills for Mature Workers	Certificates < 2yrs.	College of the Canyons - Primary	\$685.00
Basic Computer Skills for Mature Workers Accelerated	Certificates < 2yrs.	College of the Canyons - Primary	\$685.00
Basic French Language Skills For Everyday Life	French	ALISON	\$0.00
Basic Pharmacy Technician Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Mission College - Primary	\$2,980.00
BASIC PRIMAVERA P6	Certificates < 2yrs.	AAA Institute - Primary	\$3,999.00

Program Name	Program Outcome	Provider Name	Cost
BASIC PRIMAVERA P6	Certificates < 2yrs.	AAA Institute - Satellite	\$3,999.00
Bassett Adult School (TAA)	Sum of all types	Bassett Adult School - Primary	\$20,000.00
Beauty Living United Inc	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Big Data and Hadoop Administrator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$2,199.00
Big Data and Hadoop Developer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$2,199.00
Biological Technician Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Pasadena Bio Collaborative Incubator - Primary	\$1,000.00
Biotech Training Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$2,650.00
Biotechnology Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$3,264.00
Biotechnology/ Biomanufacturing Skills Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$3,890.00
BIT - Administrative Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Pasadena City College - Primary	\$4,925.00
BIT - Business Information Worker	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Pasadena City College - Primary	\$4,465.00
BIT - Business Software Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Pasadena City College - Primary	\$4,465.00
BIT - Office Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Pasadena City College - Primary	\$4,465.00
Bluebeam Revu: AEC Management Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$1,571.00
Bookkeeping	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Satellite	\$3,500.00
Bookkeeping & Office Specialist	Certificates < 2yrs.	OSC Computer Training - Satellite	\$6,853.99

Program Name	Program Outcome	Provider Name	Cost
Bookkeeping Series	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$254.00
BRICKMASONS APPRENTICESHIP TRAINING TRUST	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Broadband Cable Television and Satellite Technician	Certificates < 2yrs.	RWM Fiber Optics, Inc. - Primary	\$6,550.00
Broadband Cable Television Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RWM Fiber Optics, Inc. - Primary	\$4,975.00
Building Analyst and Envelope Shell Combo Course for BPI Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley College - Primary	\$3,195.00
Building Analyst Quick Start	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$1,595.00
Building Analyst Quick Start Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$1,845.00
Building and Grounds Fundamentals	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$1,438.00
Building and Grounds Worker Fundamentals	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$610.00
Building Automation System	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,234.00
Building Maintenance	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Sutech School of Vocational and Technical Training - Primary	\$5,400.00
Bus Driver Class B	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Dynasty Trucking School - Primary	\$2,600.00
Bus/ Truck Driver, Class B	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hi-Desert Truck Driving School - Primary	\$3,799.00
Business - Human Resource Mgmt. Level I	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$1,448.00
Business - Human Resource Mgmt. Level II	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,578.00
Business - Human Resource Mgmt. Level III	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,565.00
Business - International Level I	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$1,310.00

Program Name	Program Outcome	Provider Name	Cost
Business - International Level II	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,578.00
Business - International Level III	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$5,091.00
Business - Small Business Management Level II	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$2,784.00
Business - Small Business Management Level III	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,149.00
Business Administration Certificate	Certificates < 2yrs.	Cerritos College - Primary	\$2,023.00
Business Administrative Assistant	Certificates < 2yrs.	OSC Computer Training - Satellite	\$7,208.69
Business Analysis Professional (BAP)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00
Business Analysis Professional (BAP)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$3,999.00
Business General Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Pacific College - Primary	\$6,274.00
Business Intelligence and Knowledge Management Systems	Business Process Management	ALISON	\$0.00
Business Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$4,411.65
Business Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$3,450.00
Business Management Certificate	Certificates < 2yrs.	Cerritos College - Primary	\$2,023.00
Business Management Level II	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,068.00
Business Management Level III	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,149.00
Business Marketing Certificate	Certificates < 2yrs.	Cerritos College - Primary	\$2,023.00
Business Objects Universes and Enterprise	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$7,499.00
Business Objects Universes and Enterprise	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$7,499.00
Business Office Administration	Certificates < 2yrs.	UEI College - Primary	\$10,000.00

Program Name	Program Outcome	Provider Name	Cost
Business Office Administration	Certificates < 2yrs.	UEI College - Satellite	\$10,000.00
Business Office Administration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Crescent College - Primary	\$5,995.00
Business Office Administration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$1,250.00
Business Office Administration (Online Training)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	InterCoast Colleges - Satellite	\$16,355.00
Business Skills Program	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,100.00
C# Programming	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00
C# Programming	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$3,999.00
CA Guard Card	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley College - Primary	\$856.00
CA State University Dominguez Hills (TAA)	State-defined Completion Types	California State University Dominguez Hills - Primary	\$20,000.00
CAD/ CAM Advanced Shop Applications	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,590.00
California Healing Arts College (TAA)	Secondary	California Healing Arts College - Primary	\$0.00
Camera, Lighting & Grip - Camera Operator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Lifton Institute of Media Arts and Sciences - Primary	\$4,995.00
Camino Real Career School (TAA)	Sum of all types	Camino Real Career School - Primary	\$20,000.00
CAPSTONE COLLEGE (TAA)	Sum of all types	CAPSTONE COLLEGE - Primary	\$20,000.00
Cardiovascular Ultrasound	Associate's Degree	West Coast Ultrasound Institute - Primary	\$38,459.00
Care Coordination and Systems Navigation	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$1,050.00
Care Coordinator: Patient Navigator (Entry-Level I)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Primary	\$1,524.00

Program Name	Program Outcome	Provider Name	Cost
Care Coordinator: Patient Navigator (Entry-Level I)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Satellite	\$1,524.00
Career College Consultants, Inc (TAA)	Sum of all types	Eagle Rock College - Primary	\$20,000.00
Caregiver Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$952.00
Caring in the Health Professions	Caregiving	ALISON	\$0.00
CATIA Prismatic and Advanced Machining	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,030.00
CATIA V5 FUNDAMENTAILS BOOTCAMP CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$3,150.00
CATIA V5 Mechanical Design	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,030.00
CATIA V5 Surface Modeling Design	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,590.00
CBCS Certified Medical Administrative Assistant w/ Medical Billing & Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$3,045.00
CBCS Medical Billing & Coding + Medical Terminology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$2,645.00
CBD College (TAA)	Sum of all types	CBD College - Satellite	\$20,000.00
CCNA with CompTIA Network +	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$6,995.00
Central Service Instrument Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Career College - Primary	\$9,500.00
Ceritfied Home Health Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Primary	\$3,577.00
Ceritfied Home Health Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Satellite	\$3,577.00
Cerritos College (TAA)	Sum of all types	Cerritos College - Primary	\$20,000.00
Certificate in Advanced Plumbing Systems Design Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$7,838.37

Program Name	Program Outcome	Provider Name	Cost
Certificate in Applications Programming Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$7,915.95
Certificate in Applications Programming w/ Concentration in C# .Net Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$8,600.00
Certificate in Biotechnology Engineering Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$6,200.00
Certificate in Business and Management of Entertainment Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$6,950.00
Certificate in Business Fundamentals Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$9,128.63
Certificate in Business Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Heritage College - Satellite	\$5,900.00
Certificate in Business Management-Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Heritage College - Satellite	\$5,900.00
Certificate in Communication Systems Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$5,930.00
Certificate in Construction Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$2,399.00
Certificate in Construction Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Satellite	\$2,399.00
Certificate in Construction Management Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$9,988.84
Certificate in Contract Management Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$7,100.00
Certificate in Cybersecurity Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$5,100.64
Certificate in Database Management Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$8,978.03
Certificate in Digital Marketing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$2,499.00

Program Name	Program Outcome	Provider Name	Cost
Certificate in Digital Marketing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Satellite	\$2,499.00
Certificate in Digital Signal Processing Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$5,930.00
Certificate in Government Cost Estimating and Pricing Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$5,700.00
Certificate in Human Resource Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Satellite	\$1,800.00
Certificate in Human Resources Management Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$8,600.00
Certificate in Human Resources Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Heritage College - Satellite	\$5,900.00
Certificate in Information Technology Management Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$6,443.97
Certificate in Interior Design: Foundation Level Hybrid	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	UCLA Extension - Primary	\$19,236.00
Certificate in International Trade and Commerce Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$9,123.00
Certificate in Lean Six Sigma Sequential Program Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$4,026.98
Certificate in Legal Interpretation & Translation, Chinese/ English Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$5,251.60
Certificate in Legal Interpretation & Translation, Spanish/ English - Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$5,218.46
Certificate in Linux/ Unix	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$6,245.38
Certificate in Marketing Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$5,830.00
Certificate in Marketing Strategy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Satellite	\$2,499.00

Program Name	Program Outcome	Provider Name	Cost
Certificate in Marketing with Concentration in Digital Marketing Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$7,166.00
Certificate in Medical Device Engineering Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$6,055.00
Certificate in Music Business Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$7,750.00
Certificate in Operating System Administration Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$9,900.00
Certificate in Paralegal Studies Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$9,182.00
Certificate in Personal Financial Planning Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$8,375.00
Certificate in Real Estate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$7,230.00
Certificate in Real Estate Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$7,230.00
Certificate in Recycling and Solid Waste Management Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$5,700.00
Certificate in Sequential Program in Web Technology Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$6,798.63
Certificate in Supply Chain Management Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$5,350.00
Certificate in Sustainability Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$4,670.00
Certificate in Systems Analysis Hybrid	Postsec. Awards/ Cert./ Diplomas; <1 yr.	UCLA Extension - Primary	\$9,150.17
Certified Accounting and Office Specialist	Certificates < 2yrs.	OSC Computer Training - Satellite	N/A
Certified Administrative Professional (CAP) Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Satellite	\$2,299.00

Program Name	Program Outcome	Provider Name	Cost
Certified Associate in Project Management (CAPM®) - Fourth Edition	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Certified Associate Project Manager	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Pomona - Extension (Foundation) - Primary	\$1,300.00
Certified Associate in Project Management (CAPM)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00
Certified Bookkeeper Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,445.00
Certified Cisco Network Associate (CCNA)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$3,000.00
Certified Customer Service Professional with Computer Skills	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$1,300.00
Certified Ethical Hacker (CEH)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$3,475.00
Certified Global Business Professional Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$2,945.00
Certified Green Supply Chain Professional Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,045.00
CERTIFIED HOME HEALTH AIDE	Certificates < 2yrs.	Technical College - Satellite	\$880.00
Certified Indoor Air Quality Manager (CIAQM) Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$795.00
Certified Indoor Air Quality Manager Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$1,145.00
Certified Indoor Environmentalist (CIE) Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$895.00
Certified Indoor Environmentalist Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$1,245.00
Certified Information Systems Auditor (CISA)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00

Program Name	Program Outcome	Provider Name	Cost
Certified Information Systems Auditor (CISA)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$3,999.00
Certified Information Systems Security Professional (CISSP)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$3,395.00
Certified Internet Webmaster	Postsec. Awards/ Cert./ Diplomas; <1 yr.	ABCO Technology - Primary	\$5,455.00
Certified Mediator and Arbitrator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$4,295.00
Certified Mediator and Restorative Justice Practitioner	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$4,295.00
Certified Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Golden Oak Adult School - Primary	\$1,750.00
Certified Medical Assisting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$4,467.00
CERTIFIED NATIONAL PHARMACEUTICAL REPRESENTATIVE ONLINE	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,245.00
Certified Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	CET-Nursing - Primary	\$2,065.00
Certified Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	L.A. Vocational Institute - Primary	\$1,985.00
Certified Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Pasadena City College - Primary	\$1,028.00
Certified Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Platt College Los Angeles, LLC - Primary	\$1,795.00
Certified Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	San Antonio ROP - Primary	\$2,200.00
CERTIFIED NURSE ASSISTANT	Secondary	Technical College - Satellite	\$2,797.00
Certified Nurse Assistant (CNA)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$2,742.00

Program Name	Program Outcome	Provider Name	Cost
Certified Nurse Assistant / Home Health Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$1,645.00
Certified Nurse Assistant / Home Health Aide / Acute Care	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$4,214.00
Certified Nurse Assistant/ Home Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Mission College - Primary	\$1,655.00
Certified Nurse Assistant/ Home Health Aide/ Restorative Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	CET-Nursing - Primary	\$2,815.00
Certified Nursing Assistant	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$1,630.00
Certified Phlebotomy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Primary	\$2,615.00
Certified Phlebotomy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Golden Oak Adult School - Primary	\$2,210.00
Certified Phlebotomy Technician CPT-1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Crescent College - Primary	\$1,995.00
Certified Protection Services Officer Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$1,200.00
CERTIFIED RESTAURANT SERVER	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$1,495.00
Certified Restorative Home Health Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Satellite	\$3,977.00
Certified Safety and Health Official	Certificates < 2yrs.	California State University Dominguez Hills - Primary	\$6,108.70
Certified Security Agent	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$2,525.00
Certified Supply Chain Professional (CSCP) Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$3,499.00
Certified Supply Chain Professional (CSCP) Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Satellite	\$3,499.00

Program Name	Program Outcome	Provider Name	Cost
Certified Welder	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$5,000.00
Certified Welder	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Satellite	\$5,000.00
Certified Workplace Mediator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$4,295.00
CG Modeling	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$7,500.00
Characteristics of the Successful Entrepreneur	Entrepreneurship	ALISON	\$0.00
Chartered Tax Professional for California Residents Only	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,445.00
Chef/ Culinary Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$10,000.00
Chef's Training Certificate of Achievement	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$9,000.00
Chemical Dependency Counselor	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Crescent College - Primary	\$6,300.00
Chemical Technician Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Pasadena Bio Collaborative Incubator - Primary	\$1,000.00
Chemical Technology	Certificates < 2yrs.	Los Angeles Trade Technical College - Primary	\$3,077.00
Child Care Provider	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Sutech School of Vocational and Technical Training - Primary	\$5,150.00
Child Care/ Day Care Worker	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$2,519.00
Child Care/ Teacher's Aide/ Pre- School Teacher	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$4,744.00
Child Day Care Worker	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$2,150.00

Program Name	Program Outcome	Provider Name	Cost
Child Development	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$6,513.50
Child Development Associate Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$1,200.00
Child Development Associate Training Renewal	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$900.00
Child Development Provider: Private Sector	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$3,600.00
Childcare Provider	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RYON COLLEGE - Satellite	\$5,665.00
Children's Programs: General Level II	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,294.00
Children's Programs: General Level III	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,982.00
CISCO	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$2,800.00
Cisco Certified Entry Level Networking Technician (CCENT) with CompTIA Linux+	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,200.00
Cisco Certified Network Administrator (CCNA)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$5,695.00
Cisco Certified Network Associate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	ABCO Technology - Primary	\$2,893.00
Cisco Certified Network Professional Program (CCNP) Voice	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$22,400.00
Cisco Certified Networking Administrator Program (CCNA) with Specialization	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$8,400.00
CISCO Networking Level I	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$3,999.00
CISCO Networking Level II	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$7,499.00
Cisco Professional Program (CCNP)	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$11,300.00

Program Name	Program Outcome	Provider Name	Cost
CISCO Voice Over Internet Protocol (VOIP) Level 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$3,995.00
CISCO Voice Over Internet Protocol (VOIP) Level 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$9,500.00
Cisco® Implementing Cisco® Edge Network Security Solutions (SENSS)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$3,495.00
Cisco® Implementing Cisco® IOS Network Security 2.0 (IINS)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,975.00
Cisco® Implementing Cisco® Secure Access Solutions (SISAS)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$4,495.00
Cisco® Implementing Cisco® Switched Networks v2.0 (SWITCH)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$3,495.00
Cisco® Implementing Cisco® Threat Control Solutions v1.0 (SITCS1)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$3,495.00
Cisco® Implementing Cisco® Unified Wireless Networking Essentials v2.0 (IUWNE)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,975.00
Cisco® Implementing Cisco® Voice Communications and QoS v8.0 (CVOICE)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$3,495.00
Cisco® Interconnecting Cisco® Networking Devices Part 2 v2.0 (ICND2)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$3,295.00
Cisco® Introducing Cisco® Data Center Networking v1.0 (DCICN)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$4,495.00
Cisco® Introducing Cisco® Voice and Unified Communications Administration v8.0 (Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$3,495.00
Cisco® IPv6 Fundamentals, Design and Deployment (IP6FD)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Cisco® Troubleshooting and Maintaining Cisco® IP Networks v2.0 (TSHOOT)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$3,495.00
Cisco® Troubleshooting Cisco® Unified Communications (TVOICE)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$3,495.00

Program Name	Program Outcome	Provider Name	Cost
CIS-Comprehensive IT Program (MTA, CompTIA A+, Network+, Security+, CCENT)	Information Technology Certificates	Cerritos College - Primary	\$5,900.00
CIS-Information Technology CCENT Certification	Information Technology Certificates	Cerritos College - Primary	\$4,709.00
CIS-Information Technology Network+ Certification	Information Technology Certificates	Cerritos College - Primary	\$4,709.00
CIS-Information Technology Security+ Certification	Information Technology Certificates	Cerritos College - Primary	\$4,709.00
Class A and B (Tractor-Trailer/ Bus)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Camino Real Career School - Primary	\$4,395.00
Class A Tractor-Trailer Course	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Camino Real Career School - Primary	\$3,800.00
Class BP Bus Course	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Camino Real Career School - Primary	\$3,500.00
Clerical Accounting	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,940.00
Clerical Administration/ Microsoft Office Suite	On-The-Job Training	Mt. San Antonio College - Primary	\$0.00
Clinical Dental Assistant Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$2,545.00
Clinical Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$2,800.00
Clinical Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Primary	\$5,500.00
Clinical Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Satellite	\$5,500.00
Clinical Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Satellite	\$5,500.00
Clinical Medical Assistant Certificate Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$2,978.00

Program Name	Program Outcome	Provider Name	Cost
Clinical Medical Assistant Front / Back Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$3,871.00
Clinical Medical Assistant Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$3,149.00
Clinical Medical Assisting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	High Desert Medical College - Primary	\$8,875.00
Clinical Medical Assisting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Newport International United College - Primary	\$4,925.00
Clinical Medical Assisting - Back Office/ Front Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Monrovia Community Adult School - Primary	\$3,625.00
Clinical Training Institute (TAA)	Sum of all types	Clinical Training Institute - Satellite	\$1,599.00
CMM Application in PC-DMIS Software Level 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,030.00
CMM Application in PC-DMIS Software Level 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,590.00
CNA	Employment & Training Program Completers	Advance Career Institute - Primary	\$2,497.00
CNA Nurse Assistant Pre-Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$1,885.00
CNA/ Home Health Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	San Antonio ROP - Primary	\$2,800.00
CNC Lathe and Mill Set-up Application Lab	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,030.00
CNC Machining	Certificates < 2yrs.	NTMA Training Centers of Southern California - Primary	\$3,975.00
CNC Programming and Set-up with MasterCAM	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,030.00
Coaching Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RIO HONDO COLLEGE - Primary	\$1,782.00

Program Name	Program Outcome	Provider Name	Cost
Code Wave - Front End Developer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Satellite	\$2,225.00
Coder ICD-10-CM & ICD-10-PCS	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$1,095.00
Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Westchester College of Nursing and Allied Health - Primary	\$13,359.00
College of the Canyons (TAA)	Sum of all types	College of the Canyons - Satellite	\$20,000.00
Collision Repair & Refinish Technology -751	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$36,995.00
Collision Repair & Refinish Technology with Estimating -754	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$39,215.00
Combination Welder	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$5,780.00
Combination Welding Trainee	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$3,338.00
Commercial Driver Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LONG BEACH CITY COLLEGE - Primary	\$5,354.75
Commercial Drivers Training - Class A	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Dolphin Trucking School - Primary	\$4,723.50
Commercial Drivers Training - Class B	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Dolphin Trucking School - Primary	\$3,584.25
Commercial Drone Pilot	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Primary	\$1,997.00
Commercial Painters	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$3,058.52
Commercial Truck Driver	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$6,050.00
Communications Technician 100	Certificates < 2yrs.	RWM Fiber Optics, Inc. - Primary	\$12,775.00

Program Name	Program Outcome	Provider Name	Cost
Communications Technician 101	Certificates < 2yrs.	RWM Fiber Optics, Inc. - Primary	\$14,400.00
Communications Technician 102	Certificates < 2yrs.	RWM Fiber Optics, Inc. - Primary	\$14,400.00
COMMUNITY COLLEGE TEACHING CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$3,032.78
Comp TIA A+, Network+, Security+ Certification	Employment & Training Program Completers	New Horizons Career Development Solutions - Satellite	\$7,073.00
Complete Course CDL Class A	Postsec. Awards/ Cert./ Diplomas; <1 yr.	GSF Driving & Truck Training School - Satellite	\$4,800.00
Complete Course CDL Class B-P	Postsec. Awards/ Cert./ Diplomas; <1 yr.	GSF Driving & Truck Training School - Satellite	\$3,995.00
Completing the Accounting Cycle	Accounting	ALISON	\$0.00
Compositing and Visual Effects	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$7,500.00
Comprehensive Security Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Pacific West Academy - Primary	\$1,950.00
CompTIA A+ 2012 - Part 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,475.00
CompTIA A+ 2012 - Part 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,475.00
CompTIA A+ Certification	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$3,595.00
CompTIA A+ Certification (2012 Objectives)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,475.00
CompTIA A+, Network+ and MCSA Windows 8	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$6,695.00
CompTIA A+, Network+, Security+ (8570), Cloud Essentials	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$9,400.00
CompTIA A+, Network+, Security+ (DOD8570)	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$7,073.00

Program Name	Program Outcome	Provider Name	Cost
CompTIA Advanced Security Practitioner (CASP)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,475.00
CompTIA Cloud Essentials Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,485.00
CompTIA Cloud+	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,485.00
CompTIA Continuing Education: Security	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
CompTIA CTT+ Train the Trainer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
CompTIA Healthcare IT Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,485.00
CompTIA Linux+ Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,543.85
CompTIA Mobile App Security+ - Android Edition	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,485.00
CompTIA Mobile App Security+ - iOS Edition	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,485.00
CompTIA Mobility+	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,475.00
CompTIA Network+ Certification (2011 Objectives)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,475.00
CompTIA Network+ Certification (2011 Objectives) (Professional Series)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,475.00
CompTIA Project+ Certification (2009 Objectives)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,475.00
CompTIA Security+ Certification	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$2,395.00
CompTIA Security+ Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$2,930.00

Program Name	Program Outcome	Provider Name	Cost
CompTIA Security+ Certification (2011 Objectives)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
CompTIA Security+ Certification (2011 Objectives) (Professional Series)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
CompTIA Server+ Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
CompTIA Social Media Security Professional (SMSPP)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
CompTIA Storage+ Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Computer -Aided Drafting Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Proficia LLC - Primary	\$7,500.00
Computer and Networking Technology Level I	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,932.00
Computer and Networking Technology Level II	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$5,830.00
Computer Animation	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$7,500.00
Computer Application Online Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Golden Bridge College - Primary	\$5,500.00
Computer Applications - Microsoft Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Compton Adult School - Primary	\$400.00
Computer Applications - Office Occupations	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Monrovia Community Adult School - Primary	\$3,150.00
Computer Applications On-Line	Vocational Rehabilitation	International College - Primary	\$8,000.00
Computer Applications Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$2,470.00
Computer Graphics and Design	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Pacific College - Primary	\$5,919.00
COMPUTER GRAPHICS AND DESKTOP PUBLISHING	Certificates < 2yrs.	Palladium Technical Academy - Primary	\$7,500.00

Program Name	Program Outcome	Provider Name	Cost
Computer Graphics/ Desktop Publishing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles ORT College - Primary	\$9,000.00
Computer Graphics/ Web Design	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Computer Institute of Technology - Primary	\$6,750.00
Computer Hacking Forensics Investigator (CHFI)	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$3,995.00
Computer Hacking Forensics Investigator (CHFI) v4	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$3,475.00
Computer Illustration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$7,225.00
Computer Information Systems	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Learnet Academy - Primary	\$7,475.00
Computer Information Systems	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Pacific College - Primary	\$6,354.00
Computer Institute of Technology (TAA)- Bellingham Ave.	Sum of all types	Computer Institute of Technology - Primary	\$20,000.00
Computer Network Specialsit/ Unix Intro	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Computer Institute of Technology - Primary	\$7,500.00
Computer Networking	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$305.00
Computer Networking (Microsoft)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	PCI College - Primary	\$7,775.00
Computer Networking and Repair	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$3,828.00
Computer Office Applications	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RYON COLLEGE - Satellite	\$5,650.00
Computer Office Applications and Vocational ESL	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$1,131.00
Computer Office User Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Learnet Academy - Primary	\$3,625.00

Program Name	Program Outcome	Provider Name	Cost
Computer Operations 1 and 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$836.00
Computer Operations Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,175.00
Computer Operations/ 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$431.00
Computer Operator Clerk	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,240.00
Computer Operator Clerk & Keyboarding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,540.00
Computer Repair (A+)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$1,785.00
Computer Repair 1A	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$305.00
Computer Repair 1B	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$305.00
Computer Repair Specialist/ A+	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Computer Institute of Technology - Primary	\$5,350.00
Computer Repair Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RYON COLLEGE - Satellite	\$5,565.00
Computer Science Java Programming	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$2,079.00
Computer Service Technician	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$5,000.00
Computer Set Up / Maintenance and Operation	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Intech College - Primary	\$7,200.00
Computer Skills A-Z	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$450.00
Computer Software Applications	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Caledonian, Inc. - Primary	\$6,000.00
Computer Systems and Programming	Postsec. Awards/ Cert./ Diplomas; <1 yr.	SoCal Tech Academy, LLC - Primary	\$8,500.00

Program Name	Program Outcome	Provider Name	Cost
Computer Systems Repair Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Crescent College - Primary	\$5,995.00
Computer Systems Technician	Certificates < 2yrs.	UEI College - Satellite	\$10,000.00
Computer Systems Technology	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,544.00
Computer Technician	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$2,110.00
Computer Technician (A+)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$57.50
Computerized Accounting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Advanced College - Primary	\$14,787.50
Computerized Accounting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Pacific College - Primary	\$9,266.00
Computerized Accounting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	The Accounting Annex, Inc. - Primary	\$4,750.00
Computerized Accounting (Online training)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	InterCoast Colleges - Satellite	\$16,355.00
Computerized Accounting and Bookkeeping	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of Western California - Primary	\$4,900.00
Computerized Accounting Systems Certificate of Achievement	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RIO HONDO COLLEGE - Primary	\$1,524.83
Computerized Medical Biller/ Coder	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Healthcare Career College - Primary	\$9,500.00
Computerized Medical Billing II	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Gendarme Institute - Primary	\$4,000.00
Computerized Office Specialist	Certificates < 2yrs.	Integrated Digital Technologies (IDT) - Primary	\$4,500.00
Computerized Office Technology	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$4,890.00
Computerized Taxing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Giligia College - Satellite	\$6,630.00
Concept Design	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$7,500.00

Program Name	Program Outcome	Provider Name	Cost
Configuring Advanced Windows Server 2012 Services	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Configuring and Administering Hyper-V in Windows Server 2012	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
Configuring and Administering Microsoft SharePoint 2010	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Configuring and Administering Windows 7	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Configuring and Deploying a Private Cloud	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Configuring and Troubleshooting a Windows Server 2008 Network Infrastructur	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Configuring and Troubleshooting Identity and Access Solutions with Windows	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Configuring Windows 8.1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Configuring Windows Server 2008 Active Directory Domain Services	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Configuring, Managing and Troubleshooting Microsoft Exchange Server 2010	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Configuring, Managing, and Maintaining Windows Server 2008 Servers	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Construction	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Monrovia Community Adult School - Satellite	\$2,450.00
Construction 101 and Technical Math	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$2,295.00
Construction Management	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	California State University Pomona - Extension (Foundation) - Primary	\$3,550.00
CONSTRUCTION PROJECT MANAGEMENT	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University	\$2,908.87

Program Name	Program Outcome	Provider Name	Cost
		Dominguez Hills - Primary	
Construction Safety - The Safety Management Pack	Health and Safety	ALISON	\$0.00
Construction Technical Math	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$1,195.00
Construction Work	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$2,270.70
Construction Work for Carpenters	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$5,042.43
Construction Work for Laborers	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$4,889.42
Construction Work: We Build	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$1,310.70
Construction Worker	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$2,950.00
Conventional & CNC Machining	Postsec. Awards/ Cert./ Diplomas; <1 yr.	NTMA Training Centers of Southern California - Primary	\$6,475.00
Core Collision Repair & Refinish Technology -745	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$39,095.00
Core Collision Repair & Refinish Technology with Estimating -748	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$33,945.00
Core Competencies Construction	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Coastline Community College - Satellite	\$3,975.00
Core Competencies Construction w/ hazwoper	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Coastline Community College - Satellite	\$4,800.00
Core Solutions of Microsoft Exchange Server 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Core Solutions of Microsoft Lync Server 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00

Program Name	Program Outcome	Provider Name	Cost
Core Solutions of Microsoft® SharePoint® Server 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Correctional Sciences	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$5,116.00
Cosmetologist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Academy of Beauty, Inc. - Primary	\$8,534.00
Cosmetologist	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Hacienda La Puente Adult Education - Primary	\$6,265.00
Cosmetology	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$5,310.00
Cosmetology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	International Academy of Cosmetology - Primary	\$8,000.00
Cosmetology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	International College of Beauty Arts & Sciences - Primary	\$14,300.00
Cosmetology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Lancaster Beauty School - Primary	\$13,550.00
Cosmetology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Palace Beauty College - Primary	\$14,000.00
Cosmetology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Redondo Beach Beauty College - Primary	\$11,690.00
Cosmetology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$7,200.00
Cosmetology	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Cosmetica Beauty and Barbering Academy - Primary	\$10,089.00
Cosmetology	Vocational Rehabilitation	ABC Adult School - Satellite	\$5,999.00
Creating An Entrepreneur's Checklist for Success	Entrepreneurship	ALISON	\$0.00
Creating Business Start-Ups The Kawasaki Way	Entrepreneurship	ALISON	\$0.00
Creating Meaning for Employees	Human Resources	ALISON	\$0.00
Criminal Justice	Certificates < 2yrs.	UEI College - Primary	\$10,000.00

Program Name	Program Outcome	Provider Name	Cost
Criminal Justice	Certificates < 2yrs.	UEI College - Satellite	\$10,000.00
Criminal Justice	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$4,738.00
Criminal Justice: Corrections	Associate's Degree	San Joaquin Valley College - Satellite	\$31,340.00
Criminal Justice: Corrections Certificate	Certificates < 2yrs.	San Joaquin Valley College - Satellite	\$22,755.00
Cross Over - Barber to Cosmetology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	San Antonio ROP - Primary	\$2,250.00
Cross Over - Cosmo to Barbering	Postsec. Awards/ Cert./ Diplomas; <1 yr.	San Antonio ROP - Primary	\$1,500.00
Crystal Reports 2008 - Level 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
Crystal Reports 2008 - Level 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
Crystal Reports 2011 - Level 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
Crystal Reports 2011 - Level 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
Crystal Reports 2013: Part 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
Crystal Reports 2013: Part 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
Crystal Reports XI - Level 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
Crystal Reports XI - Level 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
CSL100: Contractor's State License - Law & Trade Test Review	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of Instrument Technology - Primary	\$6,999.00
CSU Pomona - Extension (Foundation) (TAA)	Sum of all types	California State University Pomona - Extension (Foundation) - Primary	\$20,000.00

Program Name	Program Outcome	Provider Name	Cost
Culinary Arts Preparation Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$2,900.00
Culinary Arts Restaurant Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of Antelope Valley - Primary	\$7,500.00
Culinary Arts/ Hospitality/ Food and Beverage Service	Certificates < 2yrs.	Los Angeles Trade Technical College - Primary	\$1,510.00
Culinary Arts: Baking & Catering	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,761.00
Culinary Arts: Chef Assistant	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$3,590.00
Culinary Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Satellite	\$5,000.00
Culinary/ Hospitality Training Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,944.00
Culinary/ Hospitality Training Academy (Short-Term)	Certificates < 2yrs.	Glendale Community College - Primary	\$1,944.00
Custodial/ Building And Grounds Fundamentals	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$425.49
Customer Service	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Employed Security Service Center, Inc. - Primary	\$600.00
Customer Service	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$550.00
Customer Service Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$900.00
Customer Service in Microsoft Dynamics CRM 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$495.00
Customer Service Rep II	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$1,485.00
Customer Service Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$1,620.00
Customer Service Specialist with Employability Skills	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$2,220.00

Program Name	Program Outcome	Provider Name	Cost
Customer Service Training	Certificates < 2yrs.	Employed Security Service Center, Inc. - Primary	\$0.00
Customer Service Training	Customer Service	ALISON	\$0.00
Customer Service, Accelerated Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$971.00
Customer Service, Full Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$1,298.00
Customer Service/ Hotel Front-Of-The-House	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$800.00
Customer Service/ Restaurant Service	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$800.00
Customer Service/ Retail Sales	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$800.00
CUSTOMER SERVICE: A STRATEGIC APPROACH TO BUSINESS SUCCESS	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$495.00
Customization and Configuration in Microsoft Dynamics® CRM 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Data Analyst (Entry Level)	Certificates < 2yrs.	New Horizons Career Development Solutions - Satellite	\$8,500.00
Data Analyst (Level Two)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$8,400.00
Database Administrator Enterprise Professional (MCITP/ MCDBA)	Certificates < 2yrs.	Integrated Digital Technologies (IDT) - Primary	\$6,500.00
Database Management-Microsoft Access	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$142.50
Database Technologies Specialist I	Certificates < 2yrs.	Integrated Digital Technologies (IDT) - Primary	\$5,300.00
Database Technologies Specialist II	Certificates < 2yrs.	Integrated Digital Technologies (IDT) - Primary	\$6,400.00
Database Technologies Specialist III	Certificates < 2yrs.	Integrated Digital Technologies (IDT) - Primary	\$7,500.00

Program Name	Program Outcome	Provider Name	Cost
Dental Assistant	Certificates < 2yrs.	California Healing Arts College - Primary	\$11,100.00
Dental Assistant	Certificates < 2yrs.	Career Care Institute - Primary	\$12,700.00
Dental Assistant	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$2,910.00
Dental Assistant	Certificates < 2yrs.	UEI College - Primary	\$10,000.00
Dental Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$705.00
Dental Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Concorde Career College - Satellite	\$10,500.00
Dental Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$6,718.00
Dental Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$7,358.00
Dental Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	North-West College - Primary	\$7,900.00
Dental Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$2,335.00
Dental Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	PCI College - Primary	\$13,920.00
Dental Assisting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Career College - Primary	\$8,600.00
Dental Assisting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$1,950.00
Dental Assisting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Tri-Cities ROP - Primary	\$1,200.00
Dental Assisting Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Dental Academy - Primary	\$4,460.00
Dental Front Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$5,000.00

Program Name	Program Outcome	Provider Name	Cost
Dental Front Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Satellite	\$5,000.00
Dental Laboratory Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	National Career College, Inc. - Primary	\$14,110.00
Deploying System Center 2012 Configuration Manager	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,100.00
Deploying Windows Server®	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
Designing a Windows Server 2008 Active Directory Infrastructure and Service	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Designing and Deploying Messaging Solutions with Microsoft Exchange Server	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Designing and Implementing a Server Infrastructure	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Designing Database Solutions for Microsoft SQL Server 2012	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Designing for Office 365® Infrastructure	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
Designing for Success Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$5,000.00
Desktop Publishing - Microsoft Publisher	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$117.50
Developing a Business Model for a Digital Media Company	E-Commerce	ALISON	\$0.00
Developing a Global Online Enterprise	E-Commerce	ALISON	\$0.00
Developing ASP.NET MVC 4 Web Applications	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Developing Business Ideas The Google Way	Entrepreneurship	ALISON	\$0.00
Developing Microsoft SQL Server 2012 Databases	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00

Program Name	Program Outcome	Provider Name	Cost
Developing Microsoft® SharePoint® 2013 Advanced Solutions	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Developing Microsoft® SharePoint® 2013 Core Solutions	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Developing Microsoft® SQL Server® 2014 Databases	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Developing Rich Internet Applications Using Microsoft Silverlight 4	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Developing Windows Applications with Microsoft Visual Studio 2010	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Developing Windows Azure and Web Services	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Diagnostic Medical Sonographer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	PCI College - Primary	\$34,995.00
Diagnostic Medical Sonography	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	National Polytechnic College - Primary	\$34,000.00
Diesel Mechanics	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$2,410.00
Diesel Technology II -290	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Universal Technical Institute of Southern California Inc. - Primary	\$34,215.00
Digital Arts Certificate Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$3,745.00
Digital Communication Networks	Network and Security	ALISON	\$0.00
Digital Illustration (Short Term)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$4,000.00
Digital Makeup and Effects (Short Term)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$4,000.00
Digital Marketing Certified Associate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$1,499.00

Program Name	Program Outcome	Provider Name	Cost
Digital Set Design	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$7,500.00
Digital Set Design (Short Term)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$4,000.00
Diploma in Business and Legal Studies	Leadership and Management	ALISON	\$0.00
Diploma in Children's Studies	Education	ALISON	\$0.00
Diploma in English Language and Literature	English	ALISON	\$0.00
Diploma in EU Public Procurement	Supply Chain Management	ALISON	\$0.00
Diploma in Food Safety	Food and Beverage	ALISON	\$0.00
Diploma in General Science	General Science	ALISON	\$0.00
Diploma in Health Studies	Disease and Disorders	ALISON	\$0.00
Diploma in Human Resources	Human Resources	ALISON	\$0.00
Diploma in Legal Studies	Law	ALISON	\$0.00
Diploma in Manufacturing and Product Design	Manufacturing	ALISON	\$0.00
Diploma in Mathematics	Core Maths Skills	ALISON	\$0.00
Diploma in Operations Management	Management and Administration	ALISON	\$0.00
Diploma in Outdoor and Physical Education Studies	Fitness	ALISON	\$0.00
Diploma in Project Management	Project Management	ALISON	\$0.00
Diploma in Psychology	Psychology	ALISON	\$0.00
Diploma in Social Work Studies	Sociology	ALISON	\$0.00
Diploma in Statistics	Probability and Statistics	ALISON	\$0.00
Diploma in Statistics	Probability and Statistics	ALISON	\$0.00
Diploma in Sustainable Development	Environmental Studies	ALISON	\$0.00
Diploma in Teaching Skills for Educators	Education	ALISON	\$0.00
Diploma in Web Business Development and Marketing	Digital Marketing	ALISON	\$0.00
Diploma in Workplace Safety and Health	Health and Safety	ALISON	\$0.00

Program Name	Program Outcome	Provider Name	Cost
Director of Staff Development	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Primary	\$480.00
Discovering and Meeting Market Needs	Marketing Management	ALISON	\$0.00
Distribution - Warehouse Clerk, Full Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$1,358.00
Distribution/ Warehouse Clerk, Accelerated	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$951.00
Dolphin Trucking School (TAA)	Sum of all types	Dolphin Trucking School - Satellite	\$20,000.00
Downey Adult School	Sum of all types	Downey Adult School - Primary	\$20,000.00
Drone Pilot Training (RPIC) Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$1,900.00
Drug and Alcohol Counselor	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$5,204.00
Drug-Free Workplace	Health and Safety	ALISON	\$0.00
Drupal Web Developer & Entrepreneur	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Proficia LLC - Primary	\$7,500.00
Drywall Finisher	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,850.17
Early Childhood Education & Supervision & Administration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	International Christian Education College - Primary	\$3,540.00
Early Childhood Education Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,790.00
East Los Angeles College/ Los Angeles Community College Dist(TAA)	Sum of all types	East Los Angeles College - Primary	\$20,000.00
East San Gabriel Valley ROP (TAA)	Sum of all types	East San Gabriel Valley ROP - Primary	\$20,000.00
EC Council- CEH Certified Ethical Hacker	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$3,995.00
Echocardiography	Certificates < 2yrs.	ATI College - Primary	\$31,330.50
Effective Communication Techniques for Teachers	Education	ALISON	\$0.00
EIM: Electrical & Instrument Maintenance	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of Instrument Technology - Primary	\$9,500.00

Program Name	Program Outcome	Provider Name	Cost
EKG / Electrocardiogram Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$1,002.00
EKG Technician Certificate Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$1,561.00
El Camino Community College	Sum of all types	El Camino College - Primary	\$20,000.00
El Monte Truck Driving School	Sum of all types	El Monte Truck Driving School - Primary	\$20,000.00
Electrical Field Service Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$3,451.22
Electrical Maintenance Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$2,100.00
Electrical Powerline Mechanic	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$3,701.36
Electrical Pre-Apprenticeship Preparation	Certificates < 2yrs.	ELECTRICAL TRAINING INSTITUTE - Primary	\$2,890.00
Electrical Training Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	InterCoast Colleges - Satellite	\$20,435.00
Electrician	Certificates < 2yrs.	Baldwin Park Adult and Community Education - Primary	\$2,814.62
Electrician (Transportation Systems)	Apprenticeship Programs	Division of Apprenticeship Standards - Satellite	\$55.00
Electrician Trainee (State Certified) 468	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$5,970.00
Electrician Trainee (State Certified) 936	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$5,970.00
Electrician Trainee Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$5,500.00
Electrician Training Program (Residential) State Certified	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,867.00

Program Name	Program Outcome	Provider Name	Cost
Electrician Training Program (State Certified)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$6,085.00
Electro-Discharge Machining	Certificates < 2yrs.	NTMA Training Centers of Southern California - Primary	\$3,075.00
Electromechanical Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$2,950.00
Electronic Health Record Management Certificate Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$1,299.00
Electronic Medical Records	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$132.50
Electronic Medical Records Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Palladium Technical Academy - Primary	\$10,400.00
Electronics Systems Technology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Mt. San Antonio College - Primary	\$800.00
Electronics Technician Certificate of Achievement	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$5,280.00
Emergency Medical Technician	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$961.00
Emergency Medical Technician	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$1,680.00
EMERGENCY MEDICAL TECHNICIAN	Certificates < 2yrs.	San Antonio ROP - Primary	\$2,500.00
Emergency Medical Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$575.00
Emergency Medical Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Compton Community College - Primary	\$1,777.00
Emergency Medical Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$4,762.00
Emergency Medical Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Pasadena City College - Primary	\$1,028.00
Emergency Medical Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional	\$1,700.00

Program Name	Program Outcome	Provider Name	Cost
		Occupational Center - Primary	
Emergency Medical Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of Antelope Valley - Primary	\$2,040.00
Emergency Medical Technician (EMT)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$1,577.00
Emergency Medical Technician Certificate Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$1,495.00
Emergency Medical Technician Core	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$3,817.00
Employment Law Certificate Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$729.00
Empower America Training Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Primary	\$2,600.00
Empower America Training Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Satellite	\$2,600.00
EMT First Responder	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,818.00
ENGINEERING AND ARCHITECTURAL AUTOCAD CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$975.00
English for Tourism - Tourist Information and Guided Tours	English	ALISON	\$0.00
English Literature Analysis	Literature	ALISON	\$0.00
English Writing Skills	English	ALISON	\$0.00
Enterprise Voice and Online Services with Microsoft Lync Server 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Entertainment Promotion and Marketing Production	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Santa Monica College - Primary	\$8,761.00
Entrepreneurship - Creating the Business	Entrepreneurship	ALISON	\$0.00

Program Name	Program Outcome	Provider Name	Cost
Entrepreneurship: Start-Up and Business Owner Management Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,645.00
ENTREPRENUERSHIP FOR FULL OR PART-TIME INCOME CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$279.00
Entry Level CNC (Computer Numerical Control)-NIMS Certified	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$6,000.00
Entry Level CNC Operator	Certificates < 2yrs.	College of the Canyons - Primary	\$4,500.00
Entry Level Welder	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$2,500.00
ESL MS Office with Business Skills	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$8,990.00
Essentials of Developing Windows Metro Style Apps Using C#	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Essentials of Developing Windows® Metro Style Apps Using HTML5 and JavaScr	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Esthetician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Academy of Beauty, Inc. - Primary	\$6,224.00
Esthetician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cosmetica Beauty and Barbering Academy - Primary	\$5,954.00
Esthetician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	International Academy of Cosmetology - Primary	\$3,455.00
Esthetician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	International College of Beauty Arts & Sciences - Primary	\$8,000.00
Esthetician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Lancaster Beauty School - Primary	\$7,664.00
Esthetician (Skin Care)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Palace Beauty College - Primary	\$7,821.85
Event & Wedding Planning Certification Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$1,499.00

Program Name	Program Outcome	Provider Name	Cost
Event & Wedding Planning Certification Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Satellite	\$1,499.00
Event Management and Design Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,445.00
Excel 2010 - VBA	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$295.00
Excel 2010 PowerPivot	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$295.00
Excel 2010 Programming with VBA	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Excel 2013 for Windows	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$99.00
Excel 2013 Programming with VBA	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Excel I & II	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Golden Oak Adult School - Primary	\$220.00
Exploring Architecture, Buildings and Monuments Through the Ages	History	ALISON	\$0.00
Exploring Google Apps	Software Tools	ALISON	\$0.00
Exploring Google Earth	Geography	ALISON	\$0.00
Exploring Planet Earth - Its Systems and Resources	Environmental Studies	ALISON	\$0.00
Eyecare Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	North-West College - Primary	\$7,900.00
Family and Child Care	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,430.00
Fiber Optics Broadband Technician	Certificates < 2yrs.	RWM Fiber Optics, Inc. - Primary	\$6,550.00
Finance Certificate	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Los Angeles Valley College - Primary	\$7,440.00
Financial Literacy	Accounting	ALISON	\$0.00
Financial Records Processor	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Premiere Career College - Primary	\$6,500.00
Fire Technology	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$6,812.00

Program Name	Program Outcome	Provider Name	Cost
Fire Technology Certificate of Achievement	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$6,480.00
Fitness and Nutrition Trainer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Fitness and Nutrition Academy - Primary	\$7,482.00
Fitness Business Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$3,145.00
Fitness Specialist Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RIO HONDO COLLEGE - Primary	\$2,488.00
Fitness Specialist/ Personal Trainer	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$2,908.00
Floral Designer 1	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$0.00
Floral Designer 2	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$0.00
Floral Designer 3	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$0.00
Food Safety Knowledge - Basic Level Requirements	Food and Beverage	ALISON	\$0.00
Food Service & Hospitality, Culinary Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Baldwin Park Adult and Community Education - Primary	\$4,483.30
Forklift/ Electric Pallet Jack Operator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Compton Adult School - Primary	\$800.00
Fractions in Mathematics	Core Maths Skills	ALISON	\$0.00
Front Desk Representative Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$1,395.00
FTI Resilient Floor & Decorative Covering Crafts JATC SO CA	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
FTI, DC 36 Veterans & Industrial Apprenticeship Prep Course	Apprenticeship Programs	LAUSD Division of Adult and Career Education - Satellite	\$3,586.00
Full Stack Web Development Immersive	Not available	Hack Reactor LLC - Satellite	\$17,980.00
Fully Certified Security Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$850.00
Fundamentals of a Windows Server® Infrastructure	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00

Program Name	Program Outcome	Provider Name	Cost
Fundamentals of American Civics	Politics	ALISON	\$0.00
Fundamentals of Chemistry	Chemistry	ALISON	\$0.00
Fundamentals of Childhood and Youth Studies	Education	ALISON	\$0.00
Fundamentals of Corporate Management	Leadership and Management	ALISON	\$0.00
Fundamentals of English Grammar	English	ALISON	\$0.00
FUNDAMENTALS OF ENTREPRENEURSHIP	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$1,057.77
Fundamentals of General Science	General Science	ALISON	\$0.00
Fundamentals of Human Resources	Human Resources	ALISON	\$0.00
Fundamentals of Human-Computer Information Retrieval	Core IT Skills	ALISON	\$0.00
Fundamentals of Incoterms	Supply Chain Management	ALISON	\$0.00
Fundamentals of Marketing Your Business Online	Digital Marketing	ALISON	\$0.00
Fundamentals of Medical Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Mission College - Primary	\$3,290.00
Fundamentals of Network Security	Network and Security	ALISON	\$0.00
Fundamentals of Perl Programming	Back End Languages	ALISON	\$0.00
Fundamentals of Storytelling in Education for Teachers and Trainers	Education	ALISON	\$0.00
Fundamentals of Virology	Disease and Disorders	ALISON	\$0.00
Fundamentals of XAML and Expression Blend	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Fundamentals: CNC	Certificates < 2yrs.	NTMA Training Centers of Southern California - Primary	\$999.00
Fundamentals: Inspection	Certificates < 2yrs.	NTMA Training Centers of Southern California - Primary	\$999.00
Fundamentals: Mastercam	Certificates < 2yrs.	NTMA Training Centers of Southern California - Primary	\$999.00
Fundraising for the Non-Profit	Economics	ALISON	\$0.00

Program Name	Program Outcome	Provider Name	Cost
Gas Metal Arc Welder (GMAW/ MIG)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$2,500.00
GDS Institute	Sum of all types	GDS Institute - Primary	\$20,000.00
General Assembly (TAA)	Sum of all types	General Assembly - Satellite	\$20,000.00
General Contractor	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Learnet Academy - Primary	\$5,075.00
General Office	Certificates < 2yrs.	JVS SoCal - Primary	\$3,280.00
General Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$2,643.00
General Office Assistant / Business Computer Applications	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Premiere Career College - Primary	\$6,500.00
General Office Clerk II	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$5,000.00
General Office Clerk II	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Satellite	\$5,000.00
General Office Clerk III	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$5,000.00
General Office Clerk III	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Satellite	\$5,000.00
General Office Clerk, Accelerated Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$1,831.00
General Office Clerk/ Basic Computer Applications	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$2,910.00
General Office Skills	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Mt. San Antonio College - Primary	\$450.00
General Office Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$5,520.00
General Office Specialist with Bookkeeping	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$6,816.00
General Office Specialist with Human Resource	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$6,720.00

Program Name	Program Outcome	Provider Name	Cost
General Office Specialist with Legal Secretary	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$6,720.00
GENERAL OFFICE WITH VESL	Certificates < 2yrs.	JVS SoCal - Primary	\$2,415.00
General Service Technician Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RIO HONDO COLLEGE - Primary	\$1,464.00
Geometric Dimensioning and Tolerancing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$2,310.00
Geometry in Mathematics	Geometry	ALISON	\$0.00
GIS SOFTWARE	Certificates < 2yrs.	AAA Institute - Primary	\$3,999.00
GIS SOFTWARE	Certificates < 2yrs.	AAA Institute - Satellite	\$3,999.00
Glendale Career College (TAA)	Sum of all types	Glendale Career College - Primary	\$0.00
Glendale Community College	Sum of all types	Glendale Community College - Primary	\$20,000.00
GLOBAL LOGISTICS AND DOMESTIC TRANSPORTATION	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$1,967.96
GLOBAL LOGISTICS SPECIALIST PROFESSIONAL DESIGNATION	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$4,500.00
Google Applications for Business	Software Tools	ALISON	\$0.00
Google SketchUp for 3D Modelling	Software Tools	ALISON	\$0.00
GRANT WRITING CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$820.80
Grant Writing Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,745.00
Graphic Design	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$7,500.00
Graphic Design (Short Term)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$4,000.00
Graphic Design and Office Specialist	Certificates < 2yrs.	OSC Computer Training - Satellite	\$7,818.77

Program Name	Program Outcome	Provider Name	Cost
Graphic Design On-Line (2)	Vocational Rehabilitation	International College - Primary	\$10,000.00
Graphic Design Window Online Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Golden Bridge College - Primary	\$5,500.00
Graphic Designer: Advertising Design	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,085.00
Graphic Media Design	Certificates < 2yrs.	ABC Adult School - Primary	\$1,860.00
GREEN AND SUSTANABLE BUILDING CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$449.00
Green and Sustainable Building Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$449.00
Green Facilities Management (Construction)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$6,325.00
Growth Strategies for Business	Marketing Management	ALISON	\$0.00
GSF Driving & Truck Training School (TAA)	Sum of all types	GSF Driving & Truck Training School - Satellite	\$20,000.00
Hacienda La Puente Adult Education	Sum of all types	Hacienda La Puente Adult Education - Primary	\$20,000.00
Hair & Makeup Department	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Lifton Institute of Media Arts and Sciences - Primary	\$4,995.00
Hardware Specialist (A+ Certification)	Certificates < 2yrs.	Integrated Digital Technologies (IDT) - Primary	\$4,800.00
Hawker Pacific Aerospace	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Health Guidelines for Avoiding Infectious Diseases	Disease and Disorders	ALISON	\$0.00
Health Info Management Med Coding	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$9,995.00
Health Information Technology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	A-Technical College - Primary	\$9,600.00

Program Name	Program Outcome	Provider Name	Cost
Health Information Technology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$3,450.00
Health Information Technology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,484.00
Health Path-Certified Restorative Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Primary	\$4,597.00
Health Path-Clinical Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Primary	\$5,200.00
Health Path-Healthcare Customer Service Representative	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Primary	\$5,200.00
Healthcare Administration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,902.00
HEALTHCARE ADMINISTRATION (AAS DEGREE)	Associate's Degree	National Career College, Inc. - Primary	\$18,000.00
Healthcare Career College TAA	Sum of all types	Healthcare Career College - Primary	\$20,000.00
Healthcare Insurance Biller	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$3,109.00
Healthcare Office Specialist (Online Training)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	InterCoast Colleges - Satellite	\$20,435.00
Healthcare Safety Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$2,463.00
Healthcare Training Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Goodwill Serving the People of Southern Los Angeles County - Primary	\$3,500.00
Healthy Living	Disease and Disorders	ALISON	\$0.00
Heartland Coalitions Carpentry Construction Pre-Apprenticeship Training Program	Apprenticeship Programs	Heartland Coalition - Satellite	\$10,000.00
Heat and Frost Insulator	Apprenticeship Programs	Hacienda La Puente Adult Education - Primary	\$4,063.00

Program Name	Program Outcome	Provider Name	Cost
Heating Ventilation & Air Conditioning (HVAC)	Certificates < 2yrs.	UEI College - Primary	\$10,000.00
Heating Ventilation Air Conditioning & Refrigeration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Newport International United College - Primary	\$13,700.00
Heating, Ventilation and Air Conditioning	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Baldwin Park Adult and Community Education - Primary	\$2,234.70
Heating, Ventilation, Air Conditioning, and Refrigeration	Associate's Degree	San Joaquin Valley College - Satellite	\$30,675.00
HED105: Truck Driver + Bus	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of Instrument Technology - Primary	\$4,999.00
HED110: Heavy Equipment Operator Truck Driver Level 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of Instrument Technology - Primary	\$7,999.00
HED120: Heavy Equipment Operator Truck Driver Level - 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of Instrument Technology - Primary	\$9,999.00
HED130: Heavy Equipment Operator Truck Driver Level - 3	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of Instrument Technology - Primary	\$12,999.00
HED150: Heavy Equipment Operator Truck Driver Level - 5	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of Instrument Technology - Primary	\$29,999.00
Hemodialysis Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	National Polytechnic College - Primary	\$6,496.50
Hemodialysis Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Platt College Los Angeles, LLC - Primary	\$6,875.00
Home Health Aide	Certificates < 2yrs.	Select Therapy Institute - Primary	\$650.00
Home Health Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Medical Careers - Primary	\$500.00
Home Health Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$609.00
Home Health Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Pathways College Nursing and Healthcare Careers - Primary	\$600.00
Home Health Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	San Antonio ROP - Primary	\$600.00

Program Name	Program Outcome	Provider Name	Cost
Home Health Aide Certification	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$0.00
Home Health Aide Certification for CNAs	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Tri-Cities ROP - Primary	\$290.00
Home Inspection Certificate Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$2,495.00
Home Inspection Certificate Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$2,895.00
Hospital Central Service Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Premiere Career College - Primary	\$9,500.00
Hospital Maintenance	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$915.23
Hospitality Training Academy (HTA) JATC	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$5,850.00
Hospitality Training Academy (HTA) JATC	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$3,500.00
Hospitality: Catering	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$2,932.00
Hospitality: Management Level II	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,068.00
Hospitality: Restaurant Level II	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$2,885.00
Hotel and Restaurant Operations	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Golden Oak Adult School - Satellite	\$418.00
How to Create Your First Website	E-Commerce	ALISON	\$0.00
How to get Angel Investors Supporting Your Business	Finances and Banking	ALISON	\$0.00
How to Negotiate the Price When Buying a House	Finances and Banking	ALISON	\$0.00
How to Plan Your Career Path	Personal Development	ALISON	\$0.00
Human Resource Assistant Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$1,615.00
Human Resources	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Newport International United College - Primary	\$1,750.00

Program Name	Program Outcome	Provider Name	Cost
Human Resources Administrator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	GDS Institute - Primary	\$9,230.00
HUMAN RESOURCES MANAGEMENT	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$1,448.45
Human Resources Management (Online)	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$1,440.00
HUMAN RESOURCES MANAGEMENT CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$999.00
Human Resources Management Certificate Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$1,310.00
Human Resources Professional Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,395.00
HVAC	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$1,340.00
HVAC (Heating Ventilation and Air Conditioning)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$3,705.00
HVAC Technician	Certificates < 2yrs.	CAPSTONE COLLEGE - Primary	\$9,975.00
HVAC Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	InterCoast Colleges - Satellite	\$16,355.00
IBEW Local Union 40- L.A. County NECA JATC	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Implementing a Data Warehouse with Microsoft® SQL Server® 2014	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Implementing a Desktop Infrastructure	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Implementing an Advanced Server Infrastructure	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Implementing and Maintaining Microsoft SQL Server 2008 Analysis Services	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00

Program Name	Program Outcome	Provider Name	Cost
Implementing Data Models and Reports with Microsoft SQL Server 2012	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Implementing Data Models and Reports with Microsoft® SQL Server® 2014	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Implementing Desktop Application Environments	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Improving Your French Language Skills	French	ALISON	\$0.00
In Home Support Services	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$800.00
Income Tax Preparer Certificate of Skill Proficiency	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RIO HONDO COLLEGE - Primary	\$663.08
InfoPath 2010 - Creating InfoPath Forms	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$295.00
InfoPath Designer 2010 with Sharepoint	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$395.00
Information Technology Infrastructure Library (ITIL)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00
Information Technology Network Support Specialist Certificate Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$8,900.00
Information Technology Network Support Specialist Certificate Program Track 3	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$8,400.00
Information Technology Network Support Specialist Certificate Program Track Two	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$6,700.00
Infotech Career College (TAA)	Sum of all types	Healthcare Career College - Primary	\$0.00
Inspection Training	Certificates < 2yrs.	NTMA Training Centers of Southern California - Primary	\$3,975.00
Installation and Deployment in Microsoft Dynamics® CRM 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
Installing and Configuring System Center 2012 Operations Manager	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00

Program Name	Program Outcome	Provider Name	Cost
Installing and Configuring Windows 7 Client	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
Installing and Configuring Windows Server 2012	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Insurance / Financial Planning & Accounting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$4,350.00
INT100: Instrument & Electrical Maintenance - Dual Craft Level 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of Instrument Technology - Primary	\$11,500.00
Intermediate Excel 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$75.00
Internal Auditor Training for AS9100 REV.D	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,590.00
International Academy of Cosmetology	Sum of all types	International Academy of Cosmetology - Primary	\$20,000.00
International Business Certificate	Certificates < 2yrs.	Cerritos College - Primary	\$2,023.00
Internet Specialist/ Web Master	Certificates < 2yrs.	Integrated Digital Technologies (IDT) - Primary	\$5,000.00
Introducing the Art of Negotiation	Sales	ALISON	\$0.00
Introducing the Five Archetypes of Organizational Culture	Leadership and Management	ALISON	\$0.00
Introduction to Arabic	Arabic	ALISON	\$0.00
Introduction to Banking	Finances and Banking	ALISON	\$0.00
Introduction to Behavioural Finance	Accounting	ALISON	\$0.00
Introduction to Cash Accounting	Accounting	ALISON	\$0.00
Introduction to Cellular Physiology	Biology	ALISON	\$0.00
Introduction to Common Medical Conditions	Disease and Disorders	ALISON	\$0.00
Introduction to Computers	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$132.50
Introduction to Construction 101	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$1,195.00

Program Name	Program Outcome	Provider Name	Cost
Introduction to Conversational English	English	ALISON	\$0.00
Introduction to Copyright Law in America	Law	ALISON	\$0.00
Introduction to Digital Photography	Photography	ALISON	\$0.00
Introduction to Drones / Unmanned Aerial Vehicles (UAV)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$1,260.00
Introduction to E-Commerce	E-Commerce	ALISON	\$0.00
Introduction to Fractional Reserve Banking	Finances and Banking	ALISON	\$0.00
Introduction to Growing Organic Food Sustainably	Food and Beverage	ALISON	\$0.00
Introduction to Information Systems	Business Process Management	ALISON	\$0.00
Introduction to Instructional Systems Design	Education	ALISON	\$0.00
Introduction to Investment and Taxation	Finances and Banking	ALISON	\$0.00
Introduction to Managing Your Personal Finance Debts	Finances and Banking	ALISON	\$0.00
Introduction to Manufacturing Processes	Manufacturing	ALISON	\$0.00
Introduction to Music Theory	Music	ALISON	\$0.00
Introduction to PCs for Absolute Beginners	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$75.00
Introduction to Programming with Python	Back End Languages	ALISON	\$0.00
Introduction to Quicken Accounting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$1,250.00
Introduction to Stocks and Short Selling	Finances and Banking	ALISON	\$0.00
Introduction to Swedish	Swedish	ALISON	\$0.00
Introduction to Teaching English as a Second Language	Education	ALISON	\$0.00
Introduction to the Cardiovascular System	Biology	ALISON	\$0.00
Introduction to the Human Reproductive System	Biology	ALISON	\$0.00
Introduction to the Human Skeletal System	Biology	ALISON	\$0.00
Introduction to the Irish Language	Irish	ALISON	\$0.00

Program Name	Program Outcome	Provider Name	Cost
Introduction to Utility Precraft Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$1,490.00
Introduction to Valuation and Investing	Accounting	ALISON	\$0.00
Introduction to Venture Capital	Finances and Banking	ALISON	\$0.00
Introduction to Windows 7	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$95.00
Introductory Manufacturing Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Compton Community College - Primary	\$2,140.00
iPhone App Development	Mobile Apps	ALISON	\$0.00
Irwin Industries, Inc.	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
It Security Administrator (Network+/ Security+/ CCNA/ CEH/ CWNA)	Certificates < 2yrs.	Integrated Digital Technologies (IDT) - Primary	\$7,500.00
IT Security Professional (CCNA/ CEH/ CISSP)	Certificates < 2yrs.	Integrated Digital Technologies (IDT) - Primary	\$6,500.00
IT Service Management with System Center Service Manager	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,600.00
IT Technician	Certificates < 2yrs.	ABC Adult School - Primary	\$2,865.00
ITIL Foundations - Business Needs and Goals	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$8,800.00
ITIL Foundations 2011 Edition	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,995.00
JavaScript Advanced Programming and AJAX	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
JavaScript and jQuery	Front End Languages	ALISON	\$0.00
JavaScript Programming	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Junior Data Analyst	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,000.00

Program Name	Program Outcome	Provider Name	Cost
JV Industrial Companies, Ltd.	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
KC Beauty Academy Unilateral Apprenticeship Committee	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
LA Fellows with Professional Development	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$1,620.00
Leadership and Instruction for Future Entrepreneurs (L.I.F.E.)	Employment & Training Program Completers	South East Los Angeles Co. WIB (SELACO) - Primary	\$2,850.00
Leadership and Management Skills	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$2,310.00
Leadership Skills in Business	Leadership and Management	ALISON	\$0.00
Lean principles for Teams	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,030.00
Lean Six Sigma	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Pomona - Extension (Foundation) - Primary	\$1,995.00
Lean Six Sigma Black Belt	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$4,500.00
Lean Six Sigma Black Belt Boot Camp	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Lean Six Sigma Green Belt	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$2,100.00
Lean Six Sigma Green Belt	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,030.00
Lean Six Sigma Green Belt Boot Camp	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,100.00
Lean Six Sigma Green Belt Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$2,299.00
Lean Six Sigma Green Belt with Leadership Development Combo Certificate Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$3,798.00

Program Name	Program Outcome	Provider Name	Cost
Lee's Enterprise Apprenticeship Program	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$60.00
Legal Investigation Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$645.00
Legal Nurse Consultant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$1,087.00
Legal Secretary Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$1,427.00
Light Auto Mechanic	Postsec. Awards/ Cert./ Diplomas; <1 yr.	GDS Institute - Primary	\$9,230.00
Light Automotive Mechanic	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Technical College - Primary	\$6,000.00
Light Duty Auto-Mechanic	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Intech College - Primary	\$6,900.00
LMU Extension (TAA)	Sum of all types	Loyola Marymount University - LMU Extension - Primary	\$20,000.00
Lockwood Industries Apprenticeship Program	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Logistics & Warehouse Technician	Certificates < 2yrs.	Employed Security Service Center, Inc. - Primary	\$0.00
Logistics and Supply Chain Professional	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Employed Security Service Center, Inc. - Primary	\$2,550.00
Logistics and Warehouse Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Employed Security Service Center, Inc. - Primary	\$1,900.00
LOGISTICS MATERIAL HANDLING CERTIFICATION SKILLS CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East Los Angeles College - Primary	\$1,939.00
Logistics/ Distribution - Warehouse Clerk	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$850.00
Los Angeles Beauty College (TAA)	Sum of all types	Los Angeles Beauty College - Primary	\$20,000.00

Program Name	Program Outcome	Provider Name	Cost
Los Angeles ORT College Technical Institute	Sum of all types	Los Angeles ORT College - Primary	\$20,000.00
Los Angeles Pacific College (TAA)	Sum of all types	Los Angeles Pacific College - Primary	\$20,000.00
Los Angeles Valley College (TAA)	Sum of all types	Los Angeles Valley College - Primary	\$0.00
Loss Prevention Training Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Goodwill Serving the People of Southern Los Angeles County - Primary	\$3,002.00
Machinist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$3,355.00
Machinist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$4,485.00
Machinist Training	Certificates < 2yrs.	NTMA Training Centers of Southern California - Primary	\$12,500.00
Magor Mold	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Maintaining a Microsoft SQL Server 2008 R2 Database	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Maintenance Supervisor	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,040.00
Major Appliance Servicer - Comprehensive	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$3,834.00
Major Appliance Servicer – Washer/ Dryer Repair	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$2,500.00
Managing and Maintaining Windows 8.1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Managing Office 365 Identities and Services	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Managing Windows Environments with Group Policy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Manicurist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cosmetica Beauty and Barbering Academy - Primary	\$2,469.00

Program Name	Program Outcome	Provider Name	Cost
Manicurist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Palace Beauty College - Primary	\$2,813.00
Manufacturing and Electrical Systems Technician	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$0.00
MANUFACTURING TECHNICIAN	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Satellite	\$2,167.00
Manufacturing/ CNC Training Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,944.00
Marine Terminal Operations Professional	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$2,750.00
Marketing Analytics Certification Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$1,099.00
Marketing Design Certification Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$3,745.00
Marketing Management	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,544.00
Marketing Success for Your Business	Marketing Management	ALISON	\$0.00
Masonry Industry Training Assoc. (MITA)	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Massage Therapist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California Healing Arts College - Primary	\$11,200.00
Massage Therapist and Health Educator Program	Certificates < 2yrs.	National Holistic Institute - Satellite	\$12,000.00
Massage Therapy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Advanced College - Primary	\$14,785.50
Massage Therapy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Baldwin Park Adult and Community Education - Primary	\$1,781.13
Massage Therapy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$3,840.00
Massage Therapy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Golden Bridge College - Primary	\$6,105.00

Program Name	Program Outcome	Provider Name	Cost
Massage Therapy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of Antelope Valley - Primary	\$7,500.00
Massage Therapy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of Western California - Primary	\$5,785.00
Master Six Sigma Black Belt	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$9,995.00
Mastercam Programming	Certificates < 2yrs.	NTMA Training Centers of Southern California - Primary	\$3,975.00
MasterCAM X for Milling and Turning Center Application	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,030.00
Mastering French Grammar and Vocabulary	French	ALISON	\$0.00
Mastering Microsoft Project 2010	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
Mastering Microsoft Project 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
Mathematics Upper-Secondary 4 - Distributions and Integration	Calculus	ALISON	\$0.00
MCDST/ MCTS - Microsoft Certified Desktop Support Technician Program	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$7,295.00
MCITP-Microsoft Certified IT Professional Windows Server Administrator w/ VMWare	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$16,655.00
MCSA	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$7,860.00
MCSA - Microsoft Certified Solutions Associate for SQL Server	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$6,795.00
MCSA SQL Database Admin. W/ Business Intelligence entry level	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$6,995.00
MCSA-Microsoft Windows Server Junior Server Administrator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$7,495.00
MCSD - Microsoft Certified Solutions Developer Web Applications	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$7,295.00

Program Name	Program Outcome	Provider Name	Cost
MCSD - Microsoft Certified Solutions Developer Windows Store Applications	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$6,695.00
MCSE - Microsoft Certified Solutions Expert	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$12,500.00
MCSE - Microsoft Certified Solutions Expert Communication	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$13,000.00
MCSE - Microsoft Certified Solutions Expert Messaging	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$13,000.00
MCSE - Microsoft Certified Solutions Expert Private Cloud	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$13,000.00
MCSE - Microsoft Certified Solutions Expert Server Infrastructure	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$13,000.00
MCSE - Microsoft Certified Solutions Expert Server/ Cloud with VMWare	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$16,595.00
MCSE - Microsoft Certified Solutions Expert SharePoint	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$13,000.00
MCSE - Microsoft Certified Solutions Expert: Business Intelligence	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$13,000.00
MCSE - Microsoft Certified Solutions Expert: Data Platform	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$13,000.00
MCSE Windows Server 2012 Infrastructure / 2012 Desktop Infrastructure	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$18,000.00
MCTS - .Net Framework 2.0 Distributed Applications	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,200.00
MCTS - Microsoft Certified Tech Specialist	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,800.00
MCTS - Microsoft Certified Technology Specialist .NET Framework 2.0 Windows	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$6,695.00
MCTS - Microsoft SQL Database Administrator/ Business Intelligence Analyst/ Health	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$7,200.00

Program Name	Program Outcome	Provider Name	Cost
MCTS - SQL Database Administrator	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,400.00
MCTS Microsoft SQL Database Admin with Business Intelligence	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$6,995.00
Mediation Series	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$755.00
Medical Administrative Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	High Desert Medical College - Primary	\$6,975.00
Medical Administrative Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	North-West College - Primary	\$7,900.00
Medical Administrative Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$1,100.00
Medical Assistant	Certificates < 2yrs.	ABC Adult School - Primary	\$3,174.00
Medical Assistant	Certificates < 2yrs.	L.A. Vocational Institute - Primary	\$5,315.00
Medical Assistant	Certificates < 2yrs.	UEI College - Primary	\$10,000.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	A-Technical College - Primary	\$8,500.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Career College - Primary	\$8,600.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American College of Healthcare and Technology - Satellite	\$9,995.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Angeles College - Primary	\$12,120.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California Career Institute, Inc - Satellite	\$10,000.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California Healing Arts College - Primary	\$10,000.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	CBD College - Satellite	\$14,100.00

Program Name	Program Outcome	Provider Name	Cost
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	CES College - Primary	\$5,880.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Compton Adult School - Primary	\$3,100.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Concorde Career College - Satellite	\$10,000.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Crescent College - Primary	\$5,950.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Eagle Rock College - Primary	\$11,800.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Primary	\$4,739.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	GDS Institute - Primary	\$8,500.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Career College - Primary	\$9,500.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,620.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	National Career College, Inc. - Primary	\$7,500.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	National Polytechnic College - Primary	\$8,995.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	North-West College - Primary	\$7,900.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RYON COLLEGE - Satellite	\$5,565.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Health Institute - Primary	\$10,195.00
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Sutech School of Vocational and Technical Training - Primary	\$5,055.00

Program Name	Program Outcome	Provider Name	Cost
Medical Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of Antelope Valley - Primary	\$7,500.00
Medical Assistant - Administrative and Clinical	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Torrance Adult School - Primary	\$1,396.00
Medical Assistant - Back Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Premiere Career College - Primary	\$8,000.00
Medical Assistant - Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Computer Institute of Technology - Primary	\$7,500.00
Medical Assistant - Front and Back Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Premiere Career College - Primary	\$10,500.00
Medical Assistant - Front Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Premiere Career College - Primary	\$9,500.00
Medical Assistant / Front & Back Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$6,100.00
Medical Assistant Administrative & Clinical	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Healthcare Career College - Primary	\$9,500.00
Medical Assistant Administrative and Clinical	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Baldwin Park Adult and Community Education - Primary	\$2,068.50
Medical Assistant Administrative and Clinical	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$2,635.00
Medical Assistant and Certified Phlebotomy Technician CPT-1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Crescent College - Primary	\$7,870.00
Medical Assistant and Health Information Technology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$3,502.00
Medical Assistant with Phlebotomy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$4,971.00
Medical Assistant/ Cardiac Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Associated Technical College - Primary	\$8,595.75
Medical Assistant/ Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Universal Healthcare Careers College - Primary	\$12,950.00

Program Name	Program Outcome	Provider Name	Cost
Medical Assistant-Front and Back Office (Hybrid)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$3,812.00
Medical Assistant-Los Angeles	Certificates < 2yrs.	Brightwood College - Satellite	\$16,000.00
Medical Assisting	Certificates < 2yrs.	Cerritos College - Primary	\$2,176.00
Medical Assisting	Certificates < 2yrs.	PCI College - Primary	\$14,065.00
Medical Assisting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$1,002.50
Medical Assisting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$6,892.00
Medical Assisting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Newport International United College - Primary	\$9,775.00
Medical Assisting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Valley College of Medical Careers - Primary	\$9,800.00
Medical Assisting Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Homestead Schools, Inc. - Primary	\$10,000.00
Medical Biller/ Coder	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$4,426.00
Medical Biller/ Coder	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$4,831.00
Medical Billing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Giligia College - Satellite	\$8,625.00
Medical Billing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$1,150.00
Medical Billing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Sutech School of Vocational and Technical Training - Primary	\$5,346.00
Medical Billing & Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Torrance Adult School - Primary	\$2,020.00
Medical Billing & Coding Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$5,131.00

Program Name	Program Outcome	Provider Name	Cost
Medical Billing & Coding: Health Information Technology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Primary	\$2,863.00
Medical Billing and Coding	Certificates < 2yrs.	PCI College - Primary	\$11,280.00
Medical Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Career College - Primary	\$8,600.00
Medical Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American College of Healthcare and Technology - Satellite	\$9,995.00
Medical Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$505.00
Medical Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Los Angeles, Professional & Glob - Primary	\$2,099.00
Medical Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Compton Adult School - Primary	\$3,075.00
Medical Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Eagle Rock College - Primary	\$11,800.00
Medical Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$1,420.00
Medical Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of Antelope Valley - Primary	\$7,500.00
Medical Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Valley College of Medical Careers - Primary	\$9,800.00
Medical Billing and Coding Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Health Institute - Primary	\$12,200.00
Medical Billing and Insurance Coding	Certificates < 2yrs.	UEI College - Satellite	\$10,000.00
Medical Billing and Insurance Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Crescent College - Primary	\$5,950.00
Medical Billing and Insurance Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RYON COLLEGE - Satellite	\$5,550.00
MEDICAL BILLING SPECIALIST	Certificates < 2yrs.	Palladium Technical Academy - Primary	\$7,200.00
Medical Billing/ Coding for Hospitals	Certificates < 2yrs.	OSC Computer Training - Satellite	\$6,315.86

Program Name	Program Outcome	Provider Name	Cost
Medical Billing/ Coding/ Admin for Physicians	Certificates < 2yrs.	OSC Computer Training - Satellite	\$9,089.70
Medical Billing/ Coding/ Admin for Physicians & Hospitals	Certificates < 2yrs.	OSC Computer Training - Satellite	\$12,075.62
Medical Billing/ EMR	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$7,500.00
Medical Billing/ Medical Front Office Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,735.00
Medical Billing/ Medical Front Office Clerk	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Advanced College - Primary	\$14,662.50
MEDICAL CLINICAL ASSISTANT	Certificates < 2yrs.	Palladium Technical Academy - Primary	\$7,200.00
Medical Coding	Certificates < 2yrs.	Cerritos College - Primary	\$3,500.00
Medical Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$8,350.00
Medical Coding (CPC) Certificate Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$3,999.00
Medical Front Office	Certificates < 2yrs.	Cerritos College - Primary	\$1,375.00
Medical Front Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$5,000.00
Medical Front Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$600.00
Medical Front Office/ Billing Clerk	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$40.00
Medical Insurance	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California Healing Arts College - Primary	\$10,000.00
Medical Insurance Biller and Coder	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Career College - Primary	\$9,500.00
Medical Insurance Biller and Coder	Postsec. Awards/ Cert./ Diplomas; <1 yr.	North-West College - Primary	\$7,900.00
Medical Insurance Billing	Certificates < 2yrs.	Cerritos College - Primary	\$3,000.00

Program Name	Program Outcome	Provider Name	Cost
MEDICAL INSURANCE BILLING	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$2,340.16
Medical Insurance Billing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$1,350.00
Medical Insurance Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$2,975.00
Medical Insurance Billing and Coding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$2,485.00
Medical Insurance Billing/ Coding Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$4,260.00
Medical Insurance Specialist	Certificates < 2yrs.	ABC Adult School - Primary	\$2,540.00
Medical Office Admin Specialist (MOAS)	Certificates < 2yrs.	OSC Computer Training - Satellite	\$7,777.67
Medical Office Admin Specialist (MOAS) - DISTANT STUDENT	Certificates < 2yrs.	OSC Computer Training - Satellite	\$7,827.67
Medical Office Administration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Concorde Career College - Satellite	\$9,500.00
Medical Office Assistant / Clerk	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$1,660.00
Medical Office Specialist	Certificates < 2yrs.	UEI College - Primary	\$10,000.00
Medical Office Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	National Career College, Inc. - Primary	\$7,500.00
Medical Receptionist/ Scheduler	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$4,321.00
Medical Records and Health Information Technology: Medical Biller	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,085.00
Medical Records Insurance Biller	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$3,690.50
Medical Records/ File Clerk	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$2,266.00

Program Name	Program Outcome	Provider Name	Cost
Medical Secretary	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$662.50
Medical Secretary	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$4,256.00
Medical Secretary/ Medical Front Office Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,965.00
Medical Secretary/ Ward Clerk	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$3,565.00
Medical Terminology/ Computerized Medical Billing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$1,288.00
Medical Transcriber	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$160.00
MEETING AND EVENT PLANNING	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$1,477.50
Mental Health Rehabilitation Technician (Online Training)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	InterCoast Colleges - Satellite	\$16,355.00
Meschkat Precision Machining, Inc. Apprenticeship Program	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Metal Machine Certificate	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Los Angeles Valley College - Primary	\$6,000.00
MICROCOMPUTER AND NETWORKING	Certificates < 2yrs.	Palladium Technical Academy - Primary	\$7,500.00
Micro Soldering IPC Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$2,500.00
Microcomputer Applications	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Sutech School of Vocational and Technical Training - Primary	\$5,150.00
Microcomputer Productivity Software	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$2,908.00
Microcomputer Repair and Maintenance	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$4,275.00

Program Name	Program Outcome	Provider Name	Cost
Microcomputer Technology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Sutech School of Vocational and Technical Training - Primary	\$5,150.00
Microsoft Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$1,980.00
Microsoft Academy with Bookkeeping	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$6,816.00
Microsoft Academy with Human Resource	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$6,870.00
Microsoft Academy with Legal Secretary	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$6,870.00
MICROSOFT ACCESS 2010 CERTIFICATION ONLINE	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$945.00
Microsoft Applications, Accelerated Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$2,763.00
Microsoft Azure for IT Professionals	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
Microsoft Backend Development	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$10,295.00
Microsoft Certified Desktop Support Technician (MCDST) MCAS Program	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$10,575.00
Microsoft Certified Solutions Associate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$3,000.00
Microsoft Certified Solutions Associate (MCSA) Desktop Support Technician Progra	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$6,895.00
Microsoft Certified Systems Engineer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	ABCO Technology - Primary	\$5,883.00
Microsoft Excel 2010 Certification Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$945.00
Microsoft Excel 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,878.00

Program Name	Program Outcome	Provider Name	Cost
Microsoft FAST Search Server 2010 for SharePoint for Application Developer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
Microsoft Junior Server Administrator w/ Linux & CompTIA Security+ Specializatio	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$11,395.00
Microsoft Office	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$970.00
Microsoft Office & Customer Service	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$1,520.00
Microsoft Office Basic Computer Skills Course	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$3,900.00
Microsoft Office Basic Computer Skills Course Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$3,900.00
Microsoft Office Core Skills	Certificates < 2yrs.	OSC Computer Training - Satellite	\$5,786.39
Microsoft Office Core Skills-DISTANT STUDENT	Certificates < 2yrs.	OSC Computer Training - Satellite	\$5,836.39
Microsoft Office Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$4,515.00
Microsoft Office Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$5,000.00
Microsoft Office Specialist (MOS Cert)	Certificates < 2yrs.	OSC Computer Training - Satellite	\$8,218.75
Microsoft Office Specialist (MOS Cert)-DISTANT STUDENT	Certificates < 2yrs.	OSC Computer Training - Satellite	\$8,268.75
Microsoft Office Specialist 2016 Online Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$2,345.00
Microsoft Office Specialist 2016 Voucher Included	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$2,945.00
Microsoft Office Specialist with Business Skills	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$6,450.00
Microsoft Office User Specialist (MOUS)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	ABCO Technology - Primary	\$4,482.00

Program Name	Program Outcome	Provider Name	Cost
Microsoft Office Word/ Excel	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$1,470.00
Microsoft SharePoint 2010 Search for Application Developers	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Microsoft SharePoint 2010 Search for IT Professionals	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Microsoft SharePoint 2010 Site Collection and Site Administration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Microsoft SharePoint 2010, Application Development	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Microsoft SharePoint 2013: Site Administrator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$395.00
Microsoft SharePoint Designer 2010 - Level 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$395.00
Microsoft SharePoint Designer 2010 - Level 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$395.00
Microsoft SharePoint Designer 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$395.00
Microsoft SharePoint Foundation 2010 - Level 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$790.00
Microsoft SharePoint Foundation 2010 - Level 2	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$790.00
Microsoft SharePoint Foundation 2013: Site Owner	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$395.00
Microsoft SharePoint Foundation 2013: Site User	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$395.00
Microsoft SharePoint Server 2010 - Introduction	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$395.00
Microsoft SharePoint Server 2010 for the Site Owner/ Power User	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$900.00

Program Name	Program Outcome	Provider Name	Cost
Microsoft SQL Database Admin	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,300.00
Microsoft Windows PowerShell v2 for Administrators	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,600.00
Mill Turn Programming & Operations Using	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$2,310.00
Mobile Electronics Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,844.44
Modern Lifestyle Diseases: Awareness and Prevention	Disease and Disorders	ALISON	\$0.00
Monitoring and Operating a Private Cloud	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Monitoring and Operating a Private Cloud with System Center 2012	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
MOS - Excel and Access - Along with Business Analysis Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$6,050.00
Motion Picture, Television and Stagehands Crafts Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$4,604.00
MRI Technologist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	National Polytechnic College - Primary	\$28,000.00
Mt. San Antonio College (TAA)	Sum of all types	Mt. San Antonio College - Primary	\$20,000.00
Multi-craft Core Curriculum (MC3)	Certificates < 2yrs.	Coastline Community College - Satellite	\$3,975.00
Multi-Craft Core Curriculum (MC3) Hazwoper	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$4,775.00
Multi-Craft Core Curriculum (MC3) OSHA 30 Construction	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$4,475.00
Multi-Craft Core Curriculum (MC3) w/ Hazwoper 40 hr	Certificates < 2yrs.	Coastline Community College - Satellite	\$4,775.00
Multi-Craft Core Curriculum (MC3) w/ Refinery Safety Attendant	Certificates < 2yrs.	Coastline Community College - Satellite	\$4,725.00
Multi-Craft Core Curriculum (MC3) with OSHA 30	Certificates < 2yrs.	Coastline Community College - Satellite	\$4,475.00

Program Name	Program Outcome	Provider Name	Cost
Multimedia Arts Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$3,945.00
MUSIC PRODUCTION RECORDING ARTS ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM	Associate's Degree	Pinnacle College - Primary	\$18,999.00
NASM Certified Personal Trainer & Exam Prep Voucher Included	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$1,645.00
National Polytechnic College (TAA)	Sum of all types	National Polytechnic College - Primary	\$20,000.00
NCSF Sports Nutrition Specialist Voucher Included	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$945.00
Network Control Operator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,700.00
Network It Professional Enterprise (MCTS/ MCITP)	Certificates < 2yrs.	Integrated Digital Technologies (IDT) - Primary	\$7,500.00
Network Readiness and Assessment for Lync	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Network Specialist II (MCSE)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Integrated Digital Technologies (IDT) - Primary	\$6,500.00
Network Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$115.00
Network+ and Security+	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,200.00
Network+, Security+, CASP Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$7,395.00
Networking Technologies for the Future	Certificates < 2yrs.	OSC Computer Training - Satellite	\$2,663.86
Networking with Windows Server®	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Newport International United College (TAA)	Sum of all types	Newport International United College - Primary	\$20,000.00
NON-PROFIT MANAGEMENT ONLINE	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,745.00

Program Name	Program Outcome	Provider Name	Cost
North-West College (TAA)	Sum of all types	North-West College - Primary	\$20,000.00
NTMA Training Centers of Southern California	Sum of all types	NTMA Training Centers of Southern California - Primary	\$20,000.00
Numerical Control Certificate	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Los Angeles Valley College - Primary	\$7,440.00
Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Medical Careers - Primary	\$2,220.00
Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Angeles College - Primary	\$2,142.00
Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Computer Institute of Technology - Satellite	\$2,797.00
Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Healthcare Career College - Primary	\$2,275.00
Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Pathways College Nursing and Healthcare Careers - Primary	\$3,272.00
Nurse Assistant (CNA)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$2,955.00
Nurse Assistant Accelerated	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Select Therapy Institute - Primary	\$2,800.00
Nurse Assistant Pre Certification CNA	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Monrovia Community Adult School - Primary	\$2,495.00
Nurse Assistant Pre-Certification	Certificates < 2yrs.	Tri-Cities ROP - Primary	\$1,100.00
Nurse Assistant Pre-Certification/ HHA/ Acute Care	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$4,635.00
Nurse Assistant Training Program (CNA)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Angeles Institute, LLC - Primary	\$2,077.00
Nurse Assistant/ Home Health Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Compton Adult School - Primary	\$1,200.00
NURSE ASSISTANT/ HOME HEALTH AIDE/ RESTORATIVE NURSE AIDE	Certificates < 2yrs.	Windsor School of Nursing Assistants - Primary	\$3,450.00

Program Name	Program Outcome	Provider Name	Cost
Nurse Assistant/ Home Health Aide/ Restorative Nurse Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Computer Institute of Technology - Primary	\$3,800.00
Nurse Assistant/ Long Term Care and Home Health Aide	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$1,529.50
Nursing Aide	Certificates < 2yrs.	Palladium Technical Academy - Primary	\$2,600.00
Nursing Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,688.00
Nursing Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Medical Allied Career Center, Inc. - Primary	\$1,936.31
Nursing Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Westchester College of Nursing and Allied Health - Primary	\$2,800.00
Nursing Assistant, Home Health Aide, and Medical Terminology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,107.00
Nursing Studies - Diet Therapy	Nursing	ALISON	\$0.00
Nursing Studies - The Nurse as Team Leader and Teacher	Nursing	ALISON	\$0.00
Nutrition for Optimal Health, Wellness and Sport Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$3,045.00
Object Oriented Programming and SQL	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$7,499.00
Occupational Safety and Health Managers and Supervisors	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$5,494.00
Occupational Therapy Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Mt. San Antonio College - Primary	\$1,500.00
Office 365: A day in the life of the End-User	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$500.00
Office Administration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	CES College - Primary	\$5,540.00
Office Administrator Certificate Program	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,800.00
Office Assistant	Certificates < 2yrs.	ABC Adult School - Primary	\$1,871.00

Program Name	Program Outcome	Provider Name	Cost
Office Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$60.00
Office Assistant/ Clerk/ Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,470.00
Office Clerk - Entry Level	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Rancho Adult Education Center - Primary	\$1,205.00
Office Management Systems	Certificates < 2yrs.	PCI College - Primary	\$4,350.00
Office Occupations	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$2,250.00
Office Skills and Business Communications	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$57.50
Office Software Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Computer Institute of Technology - Primary	\$5,150.00
OpenTech LA	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Optical Dispensing Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$2,136.00
Optical Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Career College - Primary	\$8,600.00
Optician Certification Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,345.00
Oracle 11G Database Administrator Specialist Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$4,600.00
OSC Computer Training (TAA)	Sum of all types	OSC Computer Training - Satellite	\$20,000.00
OSHA 30 Hour General Industry Safety Card	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Employed Security Service Center, Inc. - Primary	\$810.00
Palladium Technical Academy (TAA)	Sum of all types	Palladium Technical Academy - Primary	\$20,000.00
Paralegal	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$9,248.00

Program Name	Program Outcome	Provider Name	Cost
Paralegal	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Newport International United College - Primary	\$5,683.00
Paralegal	Postsec. Awards/ Cert./ Diplomas; <1 yr.	North-West College - Satellite	\$7,900.00
Paralegal (Voucher Included)	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,545.00
Paralegal / Legal Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$3,499.00
Paralegal Studies	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Los Angeles, Professional & Glob - Primary	\$5,660.00
Paralegal/ Advanced Paralegal Certificate Program Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$4,246.00
Pathways College (TAA)	Sum of all types	Pathways College Nursing and Healthcare Careers - Primary	\$20,000.00
Patient Care Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$427.50
Patient Navigator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$1,524.00
Patient Navigator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$1,524.00
Payroll and QuickBooks	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Newport International United College - Primary	\$725.00
PAYROLL PRACTICE AND MANAGEMENT ONLINE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$2,245.00
Payroll Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$3,650.00
Payroll Tax Workshop	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$170.00
PCI College (TAA)	Sum of all types	PCI College - Primary	\$20,000.00

Program Name	Program Outcome	Provider Name	Cost
Peer Specialist to Youth	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$150.00
Perioperative Nursing Course	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Azusa Pacific University - Primary	\$1,770.00
Perioperative Nursing Course Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Azusa Pacific University - Primary	\$1,770.00
Peri-Operative Training Course for Registered Nurses	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Mount Saint Mary's University - Primary	\$2,700.00
Personal Care & Nursing Assistant Preparation	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Mt. San Antonio College - Primary	\$300.00
Personal Care Aide/ Caregiver	Not available	Mt. San Antonio College - Primary	\$0.00
Personal Fitness Trainer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California Healing Arts College - Primary	\$12,900.00
Personal Fitness Trainer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Primary	\$1,149.00
Personal Fitness Trainer Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,745.00
Personal Fitness Trainer/ Health and Wellness Professional	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Health Institute - Primary	\$11,250.00
Personal Fitness Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$57.50
Personal Health and Fitness	Fitness	ALISON	\$0.00
Pet Grooming Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Wag My Tail, Inc. - Primary	\$3,752.00
Pharmacy Clerk	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$3,014.00
Pharmacy Technician	Certificates < 2yrs.	ABC Adult School - Primary	\$3,320.00
Pharmacy Technician	Certificates < 2yrs.	California Healing Arts College - Primary	\$11,700.00
Pharmacy Technician	Certificates < 2yrs.	UEI College - Satellite	\$10,000.00

Program Name	Program Outcome	Provider Name	Cost
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Career College - Primary	\$8,600.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American College of Healthcare and Technology - Satellite	\$9,995.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American University of Health Sciences - Primary	\$9,041.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$1,450.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Baldwin Park Adult and Community Education - Primary	\$2,017.40
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Los Angeles, Professional & Glob - Primary	\$1,299.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	CBD College - Satellite	\$12,100.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Computer Institute of Technology - Primary	\$7,500.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$4,263.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$7,409.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Primary	\$3,448.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Golden Oak Adult School - Primary	\$975.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$3,616.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$2,602.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Monrovia Community Adult School - Primary	\$2,495.00

Program Name	Program Outcome	Provider Name	Cost
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	North-West College - Primary	\$7,900.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$2,985.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$2,829.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Torrance Adult School - Primary	\$1,000.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Torrance Adult School - Satellite	\$1,000.00
Pharmacy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Valley College of Medical Careers - Primary	\$9,800.00
PHARMACY TECHNICIAN CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$3,595.00
Pharmacy Technician Certificate Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$1,609.00
Pharmacy Technician Online (Voucher Included)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$2,795.00
Phlebotomy	Certificates < 2yrs.	East San Gabriel Valley ROP - Primary	\$1,925.00
Phlebotomy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Advanced College - Primary	\$1,793.00
Phlebotomy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles ORT College - Primary	\$2,381.00
Phlebotomy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$1,445.00
Phlebotomy Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$2,415.00
Phlebotomy Technician	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,000.00

Program Name	Program Outcome	Provider Name	Cost
Phlebotomy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Angeles College - Primary	\$2,255.00
Phlebotomy Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Healthcare Career College - Primary	\$1,995.00
PHLEBOTOMY TECHNICIAN	Secondary	L.A. Vocational Institute - Primary	\$2,015.00
Phlebotomy Technician 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Clinical Training Institute - Satellite	\$2,360.00
Phlebotomy Technician I	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Southwest College - Primary	\$2,500.00
Phlebotomy Technician Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Universal Healthcare Careers College - Primary	\$1,995.00
Phlebotomy Technician Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Computer Institute of Technology - Primary	\$2,345.00
PHOTOVOLTAIC INSTALLATION AND REPAIR TECHNICIAN	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Satellite	\$2,415.00
Photovoltaic Installer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,555.00
Physical Therapy Aide	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$886.00
Physical Therapy Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Advanced College - Primary	\$15,250.50
Physical Therapy Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$2,255.00
Physical Therapy Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Computer Institute of Technology - Primary	\$3,400.00
Physical Therapy Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Crescent College - Primary	\$5,965.00
Physical Therapy Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,617.00
PHYSICAL THERAPY AIDE	Secondary	L.A. Vocational Institute - Primary	\$2,930.00

Program Name	Program Outcome	Provider Name	Cost
Physical Therapy Aide / Massage Therapist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American College of Healthcare and Technology - Satellite	\$9,995.00
Physical Therapy Aide Certificate Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$1,480.00
PHYSICAL THERAPY AIDE ONLINE	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,345.00
Physical Therapy Aide/ Sports Rehab	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Health Institute - Primary	\$10,000.00
Planning and Designing a Microsoft Lync Server 2010 Solution	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Planning and Managing Windows 7 Desktop Deployments and Environments	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Planning, Deploying, and Managing Microsoft Exchange 2010 Unified Messagin	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Plastics Engineering Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Pomona - Extension (Foundation) - Primary	\$1,125.00
Plumbing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$3,271.00
Plumbing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$1,530.00
PMI Agile Certified Practitioner	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00
Pole Climbing and Ladder Safety	Certificates < 2yrs.	RWM Fiber Optics, Inc. - Primary	\$3,000.00
PowerPivot for End Users	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
Powerplant Technician Single Rating	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Spartan College of Aeronautics & Technology - Primary	\$22,632.00

Program Name	Program Outcome	Provider Name	Cost
PowerPoint 2013 for Windows	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$99.00
PowerShell	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$2,695.00
Practising English Language Grammar Skills	English	ALISON	\$0.00
Practising Sustainable Development	Environmental Studies	ALISON	\$0.00
Pre Apprenticeship Preparation	Certificates < 2yrs.	Electrical Training Institute - Primary	\$2,890.00
Pre-Algebra Mathematics	Core Maths Skills	ALISON	\$0.00
Precision Assembly Training Program	Certificates < 2yrs.	College of the Canyons - Primary	\$5,140.00
Premiere Career College	Sum of all types	Premiere Career College - Primary	\$20,000.00
Preparing for the Google Analytics Individual Qualification Test	Digital Marketing	ALISON	\$0.00
Preparing to Manage - Skills and Practices	Leadership and Management	ALISON	\$0.00
Preschool/ Childcare Professions Certificate Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$120.00
Presentation Microsoft PowerPoint	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$142.57
Pre-Visualization	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$7,500.00
Principles of Green Buildings Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$1,145.00
Private Security Guard	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RWM Fiber Optics, Inc. - Primary	\$1,499.00
Private Security Guard with Taser and Firearm	Certificates < 2yrs.	RWM Fiber Optics, Inc. - Primary	\$2,499.00
Private Security Officer (Armed)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Employed Security Service Center, Inc. - Satellite	\$910.00
Private Security Officer (Armed) & School Security Officer and OSHA 10	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Employed Security Service Center, Inc. - Satellite	\$2,235.00

Program Name	Program Outcome	Provider Name	Cost
Private Security Officer (Unarmed)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Employed Security Service Center, Inc. - Satellite	\$600.00
Probability and Chance in Mathematics	Probability and Statistics	ALISON	\$0.00
Process Plant Technology	Certificates < 2yrs.	Los Angeles Trade Technical College - Primary	\$3,912.00
Process Technician Energy Pathway Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$4,100.00
Production Department	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Lifton Institute of Media Arts and Sciences - Primary	\$4,995.00
Professional Administrative Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	A-Technical College - Primary	\$8,107.00
Professional Baking and Pastry	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of Antelope Valley - Primary	\$7,500.00
Professional Baking and Pastry Certificate of Achievement	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$7,000.00
Professional Combo Course CDL Class A & B-P	Postsec. Awards/ Cert./ Diplomas; <1 yr.	GSF Driving & Truck Training School - Satellite	\$5,995.00
Professional Driver Class A	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Dynasty Trucking School - Primary	\$4,800.00
Professional Driver, Class A	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hi-Desert Truck Driving School - Primary	\$4,599.00
Professional Meeting and Events Planning Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$995.00
Professional Paralegal Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$4,900.00
Professional Security Officers Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Goodwill Serving the People of Southern Los Angeles County - Primary	\$545.00
Professional Truck-Driver Training Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Transportation Guidance and Assistance Truck	\$4,500.00

Program Name	Program Outcome	Provider Name	Cost
		Driving School - Primary	
PROFICIENCY IN SURVIVAL CRAFT	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Satellite	\$900.00
Programmer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	ABCO Technology - Primary	\$7,788.00
Programming HTML5	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
Programming in C#	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Programming in C# with Microsoft Visual Studio 2010	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Programming in HTML5 with JavaScript and CSS3	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Programming in Visual Basic	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$2,407.00
Programming in Visual Basic with Microsoft Visual Studio 2010	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Project Certifications Program Path with AutoCAD	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$7,375.00
Project Certifications Program Path with AutoCAD	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$7,375.00
Project Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Los Angeles, Professional & Glob - Primary	\$1,250.00
Project Management - PMBOK® Guide Foundations	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$599.00
Project Management and Business Processes	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$7,499.00
Project Management and Process Improvement	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,000.00

Program Name	Program Outcome	Provider Name	Cost
PROJECT MANAGEMENT CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$1,942.12
Project Management Essentials	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,785.00
Project Management Essentials with CAPM Prep	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$1,845.00
Project Management for Senior Managers	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$595.00
Project Management Fundamentals	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$395.00
Project Management Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Pomona - Extension (Foundation) - Primary	\$1,695.00
Project Management Professional	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00
Project Management Professional & Six Sigma Black Belt Training	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$10,000.00
Project Management Professional (PMP®) Certification Preparation	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,975.00
Project Management Professional Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$2,999.00
Project Management Professional Preparation	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$2,166.00
Project Management Professional Program	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,000.00
Project Management Training Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Heritage College - Satellite	\$6,900.00
Project Management Training Program Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American Heritage College - Satellite	\$6,900.00

Program Name	Program Outcome	Provider Name	Cost
Project Management with Six Sigma Green Belt Combo Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$5,298.00
Project Server 2013 Inside Out	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Project Server Manager Specialist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Integrated Digital Technologies (IDT) - Primary	\$5,000.00
Psychiatric Technician	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$6,956.00
Psychiatric Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$9,970.00
Purchasing and Supply Chain Management Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,745.00
PURCHASING CERTIFICATE ONLINE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$3,864.96
Querying Microsoft SQL Server 2012	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Querying Microsoft SQL Server® 2014	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Quick Books	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Whittier Adult School - Primary	\$663.00
QUICK BOOKS AND MS OFFICE	Certificates < 2yrs.	AAA Institute - Satellite	\$6,499.00
QuickBooks Hands On Computer Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$1,950.00
QuickBooks Pro & Office Specialist	Certificates < 2yrs.	OSC Computer Training - Satellite	\$5,829.00
QuickBooks Series	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$497.00
Radio Broadcasting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hollywood Cultural College - Primary	\$6,600.00
Radiologic Technologist	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$7,085.00

Program Name	Program Outcome	Provider Name	Cost
Real Estate and Finance/ Salesperson	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Learnet Academy - Primary	\$3,200.00
Real Estate Principles, Practice and Property Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of Western California - Primary	\$4,000.00
Real Estate Salesperson Pathway	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$135.00
Records Management Online	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,045.00
Recycling and Resource Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$4,616.00
Red Hat Certified Engineer (RHCE)	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$7,500.00
Registered Dental Assisting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$4,491.00
Renal Care Training Institute	Sum of all types	Renal Care Training Institute - Primary	\$20,000.00
Renwable Energy Design and Installation	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,995.00
Repairtech International, Inc. Apprenticeship Program, MACHINE OPERATOR I	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
Residential Electrical Wiring	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$1,050.00
Retail Management Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$2,023.00
Retail Sales Associate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Trade Technical College - Primary	\$1,445.00
Retail Sales Associate/ Customer Service Representative	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$1,395.00
Rethinking the Product Development Process	Manufacturing	ALISON	\$0.00

Program Name	Program Outcome	Provider Name	Cost
Revit Fundamentals Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$825.00
Revolution Pest Council Advanced Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Coastline Community College - Satellite	\$3,925.00
RISK MANAGEMENT PROFESSIONAL (PMI-RMP)	Certificates < 2yrs.	AAA Institute - Satellite	\$3,999.00
Risk Management Professional (PMI- RMP) Certificate Course	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Satellite	\$1,999.00
Safety and Health in Construction	Health and Safety	ALISON	\$0.00
Safety and Health in the Technology Classroom for Teachers	Health and Safety	ALISON	\$0.00
Santa Monica Community College (TAA)	Sum of all types	Santa Monica College - Primary	\$20,000.00
SAP FICO Module	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$3,999.00
SAT Math Exam	Exam Prep	ALISON	\$0.00
SCHEDULING PROFESSIONAL (PMI- SP)	Certificates < 2yrs.	AAA Institute - Satellite	\$3,999.00
School Security Officer 24 Hours	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Employed Security Service Center, Inc. - Satellite	\$235.00
School Security SB 1626	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$325.00
Scratch - Teach Computer Programming in Schools	Education	ALISON	\$0.00
Security - Baton Permit	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$250.00
Security - Guard Card	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$700.00
Security Guard	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$1,900.00
Security Guard (Short Term)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Compton Adult School - Primary	\$1,300.00
Security Guard 40	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bentley-Forbes Security Training	\$1,150.00

Program Name	Program Outcome	Provider Name	Cost
		Academy Inc. - Primary	
Security Guard/ Officer Trainee	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$665.00
Security Guard-Advanced Private Security (Comprehensive)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$2,050.00
Security Guard-Baton	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$350.00
Security Guard-Firearm Permit	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$800.00
Security Guards-Guard Card	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$725.00
Security Officer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	EdNet Career Institute, Inc - Primary	\$2,350.00
Security Professional Program	Employment & Training Program Completers	New Horizons Career Development Solutions - Satellite	\$8,500.00
Security Professional Program with Computer Hacking Forensics Investigator	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$10,300.00
SECURITY TRAINING ACADEMY	Certificates < 2yrs.	San Antonio ROP - Primary	\$2,100.00
Security Training Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$2,262.00
SEO and Social Media Marketing Practitioner Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$2,094.00
SEO and Web Analytics Practitioner Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$2,094.00
SEO Practitioner Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$1,694.00
Server Virtualization with Windows Server Hyper-V® and System Center	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Shakespeare - His Life and Work	Literature	ALISON	\$0.00

Program Name	Program Outcome	Provider Name	Cost
SharePoint 2010 - Site Collection Administrator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$790.00
SharePoint 2010 SharePoint Designer	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
SharePoint 2013 PerformancePoint Services	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
SharePoint 2013 Search Inside Out	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
SharePoint 2013 Site Collection and Site Administration	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
SharePoint for Administrators	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$9,495.00
Sheet Metal Workers' Pre-Apprenticeship Training	Certificates < 2yrs.	LAUSD Division of Adult and Career Education - Satellite	\$3,250.00
Shop Math and Blueprint Reading	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$2,310.00
SHRM California Employment Law Micro-Credential	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$1,699.00
SHRM Essentials of Human Resources	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of La Verne - Primary	\$1,499.00
Six Sigma Black Belt	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00
Six Sigma Black Belt ITIL Foundations	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,000.00
Six Sigma Black Belt Online	Certificates < 2yrs.	College of the Canyons - Primary	\$3,295.00
Six Sigma Black Belt with Project Management	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$7,500.00
Six Sigma Green Belt	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00
Six Sigma Green Belt Online	Certificates < 2yrs.	College of the Canyons - Primary	\$1,895.00

Program Name	Program Outcome	Provider Name	Cost
Six Sigma Lean Black Belt	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$3,500.00
Six Sigma Lean Black Belt with ITIL Foundations and CompTIA Project +	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$8,400.00
Six Sigma Lean Black Belt With Project Management	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$7,500.00
Six Sigma Lean Green Belt, Black Belt and Lean Facilitator	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$7,800.00
Six Sigma Professional	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,000.00
Small Business Bookkeeping Program On-Line	Vocational Rehabilitation	International College - Primary	\$6,000.00
Small Business Entrepreneurship Certificate	Certificates < 2yrs.	Cerritos College - Primary	\$2,023.00
Smarter Learning - Improve Your Study Skills and Practices	Personal Development	ALISON	\$0.00
Smog Technician	Certificates < 2yrs.	Cerritos College - Primary	\$3,200.00
SO CA Paint and Decorators JAC	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
So Cal Plaster Tenders JAC	Apprenticeship Programs	Division of Apprenticeship Standards - Satellite	\$55.00
Social Innovation Data Analyst	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Proficia LLC - Primary	\$7,500.00
Social Media and SEO Optimization Practitioner Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$2,094.00
Social Media and Web Analytics Practitioner Certification	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$2,094.00
SOCIAL MEDIA MARKETING	Certificates < 2yrs.	California State University Dominguez Hills - Primary	\$1,760.66
Software Development Fundamentals with .NET	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00

Program Name	Program Outcome	Provider Name	Cost
Software Development Fundamentals with HTML5	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Software Testing and Software Quality Assurance	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Satellite	\$4,495.00
Software Testing with Microsoft Visual Studio® 2013	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$990.00
Solar Energy Systems Installers	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Sutech School of Vocational and Technical Training - Primary	\$5,550.00
Solar Installation Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$385.00
Solar Photo Inst with Project Management and AutoDesk	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$10,000.00
Solar Photo Installer with Project Management	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$6,900.00
Solar Photovoltaic Installation Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$4,616.00
Solar PV Installation	Postsec. Awards/ Cert./ Diplomas; <1 yr.	University of Antelope Valley - Primary	\$1,975.00
Solar PV Training	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Cerritos College - Primary	\$4,980.00
Solid Works	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$4,495.00
Solidworks Mechanical Design	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$3,030.00
SolidWorks Sheet Metal Design	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,440.00
Sonaray LLC DBA International College of Beauty Arts & Sciences(TAA)	Sum of all types	International College of Beauty Arts & Sciences - Primary	\$20,000.00
Speaking and Writing English Effectively	English	ALISON	\$0.00

Program Name	Program Outcome	Provider Name	Cost
Specialist Program - Medical Front Office Assistant and Administration	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,495.00
Sports Therapy Aide	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,089.10
Spreadsheets-Microsoft Excel	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Antelope Valley Adult School - Satellite	\$142.50
SQL Querying - Level 1 Fundamentals of Querying	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$395.00
SQL Querying - Level 2 Advanced Querying	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$395.00
STANDARDS FOR TRAINING CERTIFICATION AND WATCH KEEPING	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Satellite	\$950.00
Storage and High Availability with Windows Server®	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,650.00
Structured Query Language (SQL)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00
Studio Arts (TAA)	Sum of all types	Studio Arts, LTD - Primary	\$20,000.00
Succeeding as a Venture Capitalist	Finances and Banking	ALISON	\$0.00
Supply Chain Logistics	Certificates < 2yrs.	Cerritos College - Primary	\$3,650.00
SUPPLY CHAIN MANAGEMENT	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$3,961.42
Surgical Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$4,685.00
Surgical Technology	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Premiere Career College - Primary	\$23,255.00
Surgical Technology	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	California Healing Arts College - Primary	\$23,800.00
Surgical Technology	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	CBD College - Satellite	\$25,612.00

Program Name	Program Outcome	Provider Name	Cost
Surgical Technology	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Concorde Career College - Satellite	\$23,000.00
Surgical Technology	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Glendale Career College - Primary	\$21,000.00
System Administrator/ Administrative Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Giligia College - Satellite	\$9,380.00
System Center 2012 Orchestrator	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
System Center Operations Manager 2012	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
System Center Service Manager 2012	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
TANKERMAN/ BARGE PERSON-IN- CHARGE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Satellite	\$1,150.00
TEACHING ENGLISH AS A FOREIGN LANGUAGE (TEFL) CERTIFICATE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$2,950.00
Technical Direction	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Studio Arts, LTD - Primary	\$7,500.00
TECHNICAL WRITING CERTIFICATE ONLINE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$1,810.99
TECHNICAL WRITING ONLINE	Certificates < 2yrs.	Loyola Marymount University - LMU Extension - Primary	\$2,245.00
TECHNOLOGY AND LOGISTICS ASSOCIATE DEGREE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East Los Angeles College - Primary	\$9,124.00
TECHNOLOGY AND LOGISTICS CERTIFICATE OF ACHIEVEMENT	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East Los Angeles College - Primary	\$4,469.00
TECHNOLOGY AND LOGISTICS SKILLS CERT LEVEL 1-BEGINNING LEVEL	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East Los Angeles College - Primary	\$1,499.00
TECHNOLOGY AND LOGISTICS SKILLS CERT LEVEL 2 -ADVANCED LEVEL	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East Los Angeles College - Primary	\$2,676.00

Program Name	Program Outcome	Provider Name	Cost
Telecommunications	Certificates < 2yrs.	Associated Technical College - Primary	\$8,595.75
Telecommunications Specialist I	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Integrated Digital Technologies (IDT) - Primary	\$5,300.00
Telecommunications Specialist II	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Integrated Digital Technologies (IDT) - Primary	\$6,400.00
Telecommunications Specialist III	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Integrated Digital Technologies (IDT) - Primary	\$7,500.00
Telephone Switch Technician	Certificates < 2yrs.	RWM Fiber Optics, Inc. - Primary	\$6,550.00
Television Production	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Monrovia Community Adult School - Primary	\$2,995.00
Terminal Island Adult School Apprenticeship	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
TGA Truck Driving School (TAA)	Sum of all types	Transportation Guidance and Assistance Truck Driving School - Primary	\$0.00
THE INLANDBOATMENS UNION APPRENTICESHIP COMMITTEE OF SO CA	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
The Technical College	State-defined Completion Types	Technical College - Satellite	\$20,000.00
The Technical College	State-defined Completion Types	Technical College - Primary	\$20,000.00
Think Big and Act Small: Vinod Khosla on Start-Ups	Entrepreneurship	ALISON	\$0.00
Tile Layering	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,280.00
Tool and Manufacturing Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Los Angeles Valley College - Primary	\$1,944.00
Total-Western, Inc ATC	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
TRADE Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Empower Tech - Primary	\$4,500.00

Program Name	Program Outcome	Provider Name	Cost
TRAIN TO WORK CUSTOMER ASSISTANCE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Long Beach, College of Professio - Primary	\$1,950.00
Transferring Big Company Culture to Startups	Entrepreneurship	ALISON	\$0.00
Transmission Technician Trainee	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,780.00
Troubleshooting and Supporting Windows 7 in the Enterprise	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
Truck Driving	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Compton Adult School - Primary	\$5,295.00
TV Production & Broadcasting	Postsec. Awards/ Cert./ Diplomas; <1 yr.	National Polytechnic College - Satellite	\$13,000.00
U.S. Citizenship Test Preparation	Politics	ALISON	\$0.00
UCLA Extension (TAA)	Sum of all types	UCLA Extension - Primary	\$20,000.00
Ultimate UX – Experience Design	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Satellite	\$2,495.00
Ultrasound Technology	Certificates < 2yrs.	ATI College - Primary	\$29,855.00
Understanding Advanced Search using Google Search	Core IT Skills	ALISON	\$0.00
Understanding Dyslexia	Disease and Disorders	ALISON	\$0.00
Understanding Fixed, Variable and Marginal Costs in Economics	Economics	ALISON	\$0.00
Understanding Monopolies in a Market Economy	Economics	ALISON	\$0.00
Understanding Present Value	Accounting	ALISON	\$0.00
Understanding Student Development and Diversity	Education	ALISON	\$0.00
Understanding Your Customers to Drive Sales	Marketing Management	ALISON	\$0.00
Uniquely-Abled Academy (UAA-For High Functioning Autism Population) Entry Level	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of the Canyons - Primary	\$11,500.00
University of Antelope Valley (TAA)	Sum of all types	University of Antelope Valley - Primary	\$0.00

Program Name	Program Outcome	Provider Name	Cost
Updating Your Skills from Microsoft Exchange Server 2003 or Exchange Serve	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Updating Your SQL Server Skills to Microsoft® SQL Server® 2014	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Upgrading Your Skills to MCSA Windows 8	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Upgrading Your Skills to MCSA Windows Server 2012	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
US COAST GUARD STCW BASIC SAFETY AND PROFICIENCY IN SURVIVAL	Postsec. Awards/ Cert./ Diplomas; <1 yr.	El Camino College - Satellite	\$1,850.00
User Experience Design Immersive	Postsec. Awards/ Cert./ Diplomas; <1 yr.	General Assembly - Satellite	\$14,950.00
Using Whiteboards (1): SMART Technologies	IT	ALISON	\$0.00
Valley College of Medical Careers (TAA)	Sum of all types	Valley College of Medical Careers - Primary	\$20,000.00
Veterinary Assistant	Certificates < 2yrs.	California Healing Arts College - Primary	\$11,300.00
Veterinary Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	American College of Healthcare and Technology - Satellite	\$9,995.00
VETERINARY ASSISTANT ONLINE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$2,445.00
Video Production 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$540.00
Video Production Assistant	Postsec. Awards/ Cert./ Diplomas; <1 yr.	LAUSD Division of Adult and Career Education - Satellite	\$1,162.00
Video Production: Digital Media	Postsec. Awards/ Cert./ Diplomas; <1 yr.	East San Gabriel Valley ROP - Primary	\$4,922.00
Virtualization Program with Hyper-V and VMWare	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$9,995.00
Visual Basic Programmer for .NET	Postsec. Awards/ Cert./ Diplomas; <1 yr.	AAA Institute - Primary	\$3,999.00

Program Name	Program Outcome	Provider Name	Cost
Visual Basic Script and Windows Script Host Essentials	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
VMware Certified Professional	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$2,975.00
Vocational Nurse	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Concorde Career College - Satellite	\$23,000.00
Vocational Nurse	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Career Development Institute, Inc. - Primary	\$29,785.00
Vocational Nurse	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Glendale Career College - Primary	\$26,600.00
Vocational Nurse (LVN)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$11,685.00
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Angeles College - Primary	\$29,740.00
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Angeles Institute, LLC - Primary	\$33,000.00
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Downey Adult School - Primary	\$13,225.00
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Advanced College - Primary	\$33,000.00
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	American Career College - Satellite	\$25,000.00
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	California Career Institute, Inc - Satellite	\$26,125.00
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	CES College - Primary	\$24,675.00
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	Homestead Schools, Inc. - Primary	\$31,050.00
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; 1-2 yrs.	LAUSD Division of Adult and Career Education - Satellite	\$10,435.00

Program Name	Program Outcome	Provider Name	Cost
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	Premiere Career College - Primary	\$31,414.00
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	University of Antelope Valley - Primary	\$22,606.98
Vocational Nursing	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	University of Antelope Valley - Satellite	\$22,606.98
Vocational Nursing-Los Angeles	Associate's Degree	Brightwood College - Satellite	\$31,749.00
Wardrobe Department	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Lifton Institute of Media Arts and Sciences - Primary	\$4,995.00
Water Technology	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,325.00
Water Technology - Distribution 1 and Treatment 1	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Bassett Adult School - Primary	\$1,740.00
Water Technology-Treatment & Distribution (Grade 1)	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Hacienda La Puente Adult Education - Primary	\$2,000.00
Web Analytics Practitioner	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$1,694.00
WEB APPLICATIONS DEVELOPER ONLINE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$2,845.00
Web Design	Certificates < 2yrs.	ABC Adult School - Primary	\$1,956.00
WEB DESIGN	Postsec. Awards/ Cert./ Diplomas; <1 yr.	California State University Dominguez Hills - Primary	\$2,245.10
Web Design & Programming	Certificates < 2yrs.	OSC Computer Training - Satellite	\$7,538.18
WEB DESIGN PROFESSIONAL ONLINE	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$3,845.00
Web Development Immersive	Postsec. Awards/ Cert./ Diplomas; <1 yr.	General Assembly - Satellite	\$14,950.00
Web Specialist	Information Technology Certificates	New Horizons Career Development Solutions - Satellite	\$5,000.00

Program Name	Program Outcome	Provider Name	Cost
Webmaster and Designer Program	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Santa Monica College - Primary	\$2,299.00
Webmaster Online	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Loyola Marymount University - LMU Extension - Primary	\$2,445.00
Website Design & Programming	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Giligia College - Satellite	\$7,330.00
Welding	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,974.00
Welding	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Southern California Regional Occupational Center - Primary	\$3,600.00
Welding Metal Fabrication	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Norwalk-La Mirada Adult School - Primary	\$1,785.00
Welding Technology Certificate	Postsec. Awards/ Cert./ Diplomas; <1 yr.	RIO HONDO COLLEGE - Primary	\$2,184.00
Welding Training Academy	Postsec. Awards/ Cert./ Diplomas; <1 yr.	Glendale Community College - Primary	\$1,944.00
Welding: Automotive Welding, Cutting and Modification	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,518.00
Welding: Gas Tungsten Arc Welding	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,518.00
Welding: Semiautomatic Arc Welding	Certificates < 2yrs.	Mt. San Antonio College - Primary	\$3,518.00
West Coast Ultrasound Institute	Sum of all types	West Coast Ultrasound Institute - Primary	\$20,000.00
Whiteboard Lessons, Tips and Techniques for SMART Technologies	Food and Beverage	ALISON	\$0.00
Whittier Adult School (TAA)	Sum of all types	Whittier Adult School - Primary	\$20,000.00
Windows 7, Enterprise Desktop Support Technician	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00
Windows PowerShell Scripting and Toolmaking	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$2,000.00
Windows Server Administration Fundamentals	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,000.00

Program Name	Program Outcome	Provider Name	Cost
Word 2013 for Windows	Postsec. Awards/ Cert./ Diplomas; <1 yr.	West Los Angeles College - Primary	\$99.00
Worker Education & Resource Center	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
WPG100: Word Processing & Computer Graphics	Postsec. Awards/ Cert./ Diplomas; <1 yr.	College of Instrument Technology - Primary	\$6,999.00
Writing Queries Using Microsoft SQL Server 2008 Transact-SQL	Postsec. Awards/ Cert./ Diplomas; <1 yr.	New Horizons Career Development Solutions - Satellite	\$1,350.00
Wyotech	Sum of all types	WyoTech - Satellite	\$20,000.00
Xceliron Corp	Apprenticeship Programs	Department of Labor Apprenticeships - Satellite	\$55.00
X-Ray Technician	Postsec. Awards/ Cert./ Diplomas; 1- 2 yrs.	LAUSD Division of Adult and Career Education - Satellite	\$6,927.00

Appendix C: Steps to become a Registered Apprenticeship Program

The process to becoming a Registered Apprenticeship Program involves several key steps including workforce planning and building a business case, forging partnerships, developing program design, and marketing and registering the program. While programs may vary in scope, design, and clientele served, all should undergo the following critical steps.

Workforce Planning and Building a Business Case

While there are different approaches to workforce planning, any approach chosen will have a solid plan which identifies workforce gaps and presents a business case for addressing these gaps. Workforce planning is forward-looking; those looking to establish an RA must not only consider the current employment context, but also the landscape in five to ten years' time. Because this is forecasted, workforce planning is expected (and encouraged) to change on a regular basis to accommodate new developments and predictions.⁹³ It consists of an initial gap analysis, which informs an action plan. Monitoring and reporting follow the action plan, which all inform the business strategy. During this time, it can also be informative to develop a SWOT (Strengths, Weaknesses, Opportunities, and Threats) analysis. This form of strategic planning helps new programs define critical issues within a business

⁹³http://www.themanufacturinginstitute.org/~media/53456D700856463091B62D1A3DA262F4/Full_Apprenticeship_Playbook.pdf

objective – including influential factors which are both internal (a program’s strengths and weaknesses) as well as external (outside opportunities and threats to programing success).

When considering whether an apprenticeship program may be a valuable business case, consider the following:⁹⁴

- Who is going to be involved, and what will their role be?
- What issues are going to be addressed?
- How will joint ownership with key stakeholders be established?
- What would be an ideal organizational structure for operating this program?
- Who will be mentors, and what is the process of signing up apprentices for instruction?

Forging Partnerships

Partnerships are critical for the success of an apprenticeship program’s development, funding, implementation, and marketing.

⁹⁴ https://doleta.gov/oa/employers/apprenticeship_toolkit.pdf



It is recommended to develop a stakeholder map when considering launch of an apprenticeship program. Stakeholder maps can help determine whether seeking public or private partners are most valuable, and can help identify relevant academic institutions, company coalitions, and community organizations based on the business case. Once partners have been identified and selected, programs need to clearly articulate expectations of the program. Each partner has a unique, but important, role to play in the successful launching of an apprenticeship program.

Business partners are critical for identification of industry needs, including the skills apprentices need to learn.⁹⁵ They can provide on-the-job training and can provide mentors to support apprentices throughout the program. Businesses are also responsible for paying apprentices throughout the program and act as a primary hiring source after apprentices become journeymen. **Workforce intermediaries** provide specific experience into relevant industry and can provide related instruction and supportive services to apprentices.⁹⁶ Workforce intermediaries are also useful for small and medium-sized employers who may otherwise not have the capacity to support an apprenticeship program. **Educational Institutions** are partners who develop the curricula for related instruction and teach this to apprentices. They can also provide college credit for successful course completion as an incentive for participants. The K-12 education system can be a critical component to apprentices' and apprenticeship program success as school systems can create pipelines to apprenticeship for students.⁹⁷ **Public workforce systems** can be useful for recruiting and screening apprenticeship applications, providing pre-apprenticeship support and basic skills foundations, providing services including tools and uniforms, and helping to fund components of the program.⁹⁸ California's Division of Apprenticeship Standards (DAS), through the Department of Industrial Relations, promotes new apprenticeships while monitoring existing ones. In

⁹⁵ https://doleta.gov/oa/employers/apprenticeship_toolkit.pdf

⁹⁶ https://doleta.gov/oa/employers/apprenticeship_toolkit.pdf

⁹⁷ https://doleta.gov/oa/employers/apprenticeship_toolkit.pdf

⁹⁸ https://doleta.gov/oa/employers/apprenticeship_toolkit.pdf

addition, the California Community College Chancellor's Office, can provide funding and technical support to new sponsors, answer questions about the apprenticeship model, connect businesses to trainers, and guide programs through the process of registration.

Additionally, many registered apprenticeships have a sponsor who is responsible for coordinating all partners and overseeing the functioning of the program. Sponsors can either be a business/business consortium, a workforce intermediary, a community college, or a community-based organization.⁹⁹

Although forging partnerships admittedly is a time-consuming and high-touch process, it is incredibly valuable for the validity of the program and will help provide opportunities to small and medium-sized firms and reach harder-to-serve communities. Companies who create a coalition can leverage their networks, strengths, and reputation to create a strong apprenticeship program that will prepare apprentices with relevant industry skills and knowledge. In turn, company partnerships benefit when apprentices leave the program and can fit quickly into a career within their organization, leading to reduced training time and a much higher likelihood of suitability within their new occupation.¹⁰⁰ Thus, there are many benefits for private/public partnerships when forging registered apprenticeship programs.

Developing Program Design

All apprenticeship programs have the same elemental design. They are comprised of a combination of structured on-the-job training and related instruction which typically occurs in a classroom setting, but can also be provided at the job site or through an online program. Apprentices moving through the program receive rewards – usually either monetary and/or in status – for advancement through the program and at the end receive a nationally-recognized credential in their specific occupation. While these elements underpin all apprenticeships, programs do vary in the type of model used, and can be customized to industry needs, demand, and partnership model.

Apprenticeship models can be time-based, competency-based, or a hybrid model. In time-based programs, apprentices must fulfill a mandatory number of hours in both classroom and on-the-job (OTJ) training before completion. Competency-based programs allow apprentices to advance through the program after satisfactory completion of proficiency tests provided along intervals and is not dependent on completion of a specific number of hours. Hybrid programs utilize a combination of these two models, typically providing a minimum and maximum range of hours for program completion, while requiring apprentices demonstrate satisfactory knowledge gains to progress through the program.¹⁰¹

Apprenticeships also vary in the distribution between related instruction and on-the-job training. Front-loaded programs begin apprentices with most of their time spent in related, often classroom, instruction. As the program progresses, they gradually reduce instruction time and increase on-the-job training time. Traditional programs rotate between related instruction and OTJ training. For instance, a traditional apprenticeship program may have apprentices in OTJ training on Monday, Wednesday, and Friday with related classroom instruction on Tuesdays and Thursdays. This structure will not change much throughout the entire program. Lastly, segmented designs allow for distinct periods of classroom time, followed by distinct periods of OJT time. Segmented RAs may be most suitable for occupations

⁹⁹ https://doleta.gov/oa/employers/apprenticeship_toolkit.pdf

¹⁰⁰ www.themanufacturinginstitute.org/~media/53456D700856463091B62D1A3DA262F4/Full_Apprenticeship_Playbook.pdf

¹⁰¹ https://doleta.gov/oa/employers/apprenticeship_toolkit.pdf

which require a higher level of technical knowledge or involve more inherent risks so apprentices may be more equipped with comprehensive learning before beginning on-the-job training.

Once deciding upon program model and structure, apprenticeship programs need to design the program framework, which includes determining how classroom curriculum will align with OTJ training components, as well as defining what it means to progress, including defining major milestones. Programs need to build training component, which encompasses choosing the educational institution or businesses in charge of providing instruction, designing classroom curricula, and defining proficiency examinations.¹⁰² OTJ development requires programs evaluate and design an OTJ training program, train the individuals who will become trainers/mentors, and leverage best practices of other related programs.¹⁰³ Programs can prepare for launch by building in support structures to aid apprentices and reduce the likelihood of dropout, to prepare for site implementation, and to maintain regular communication with key stakeholders. For a comprehensive review of building support structures for apprentices, please visit the Manufacturing Institute's [Apprenticeship Playbook](#).

Market and Register Apprenticeship

Marketing the apprenticeship determines the quality and number of applications an apprenticeship receives. Successful marketing during program implementation and inaugural classes can have a long-term impact on the program's success and output. During initial stages of implementation, building the image of the program – including clear definitions of program structure, credentials, and potential career pathways upon completion – is key.¹⁰⁴ The Manufacturing Institute recommends adhering to the following checklist when considering marketing a new apprenticeship program:

- Understand unique challenges associated with industry and proposed apprenticeship program; taking steps to address how challenges can be overcome
- Define target audience and segment
- Formulate marketing strategy for reaching the defined and segmented target audience
- Develop a branding and marketing plan (including timing, messaging, and medium of advertising)
- Pre-test marketing plan and adjust accordingly
- Create a community relations plan (including rationalizing target population and company actions)
- Select nonconventional touch points in interests of attracting a broad audience¹⁰⁵

It is critical for programs to register themselves with apprenticeship networks. Becoming a Registered Apprenticeship is beneficial for quality assurance reasons. It signals the program provides relevant skills and accompanying credentials to apprentices and provides incentives for businesses. Further, RAs can tap into federal resources, receive technical assistance, and receive state funding for academic institutions.

¹⁰²www.themanufacturinginstitute.org/~media/53456D700856463091B62D1A3DA262F4/Full_Apprenticeship_Playbook.pdf

¹⁰³www.themanufacturinginstitute.org/~media/53456D700856463091B62D1A3DA262F4/Full_Apprenticeship_Playbook.pdf

¹⁰⁴www.themanufacturinginstitute.org/~media/53456D700856463091B62D1A3DA262F4/Full_Apprenticeship_Playbook.pdf

¹⁰⁵www.themanufacturinginstitute.org/~media/53456D700856463091B62D1A3DA262F4/Full_Apprenticeship_Playbook.pdf

While the state of California does not provide tax credits to RAs, it does provide funding to community colleges who provide instruction for apprenticeship programs.¹⁰⁶ Currently, the California Community College Chancellor's Office administers \$22 million annually for related and supplemental instruction (RSI) for registered apprenticeship programs in California.¹⁰⁷ It also provides \$15 million annually to support the development of new apprenticeship programs. Since 1970, registered apprenticeships in California are provided classroom instruction support and technical assistance and support for both new and existing programs.¹⁰⁸

California's Division of Apprenticeship Standards (DAS) helps design potential apprenticeship programs while providing state standards and resources.¹⁰⁹ After determining industry needs, partners, program design, and establishing standards, apprenticeship programs must be submitted to the DAS office for approval. Only after approval can the program become an RA.

Does Becoming a Registered Apprenticeship Make Sense?

The following section is intended for those considering establishing a registered apprenticeship program within the Los Angeles region. A registered apprenticeship program is designed to respond to the urgent needs of both employers and workers, equipping participants with the skills and knowledge needed to transition smoothly into a career pathway. By completing the apprenticeship, he or she will have also improved their lifetime-earning potential, helping insulate workers from severe economic distress.

This section highlights many of the key decisions which should be considered before embarking upon an apprenticeship training program. Those considering establishing an RA must consider steps mentioned in the previous section, which surround the themes of 1) establishing a business model, 2) forging partnerships, and 3) formulating the program design before registering a program.

Identification of Industry Need

The following rubric should be used when considering whether a specific occupation within an industry needs an apprenticeship program:

- 1) Does the local job market need this program to successfully compete in the region? (Y/N)
- 2) Have you met with at least five employers to discuss an apprenticeship program?
- 3) Have at least five employers agreed to hire graduates from your program?
- 4) Can you identify adequate funding sources? (Y/N)
 - a. (You should be able to create a list of potential funding sources)
- 5) How will long-term recurrent training improve business potential in your region?
- 6) What impact would the trained workforce have on business success in your region?
- 7) What emerging technology can you identify in your area that could also potentially benefit from this program?
- 8) Who will need to approve the program to ensure it is successful?

Forging Partnerships

¹⁰⁶ <https://doingwhatmatters.cccco.edu/ForWEDDGrantees/ApprenticeshipToolkit.aspx>

¹⁰⁷ <https://doingwhatmatters.cccco.edu/ForWEDDGrantees/ApprenticeshipToolkit.aspx>

¹⁰⁸ <https://doingwhatmatters.cccco.edu/ForWEDDGrantees/ApprenticeshipToolkit.aspx>

¹⁰⁹ <https://www.dir.ca.gov/DAS/Employers.htm>

Most businesses face challenges finding the right employees. When talking with a potential employer partner, some questions to ask include:

- 1) Do you have jobs for which it is difficult to find workers with the right skills?
- 2) Do you have positions with high turnover?
- 3) Do you have occupations where a highly skilled workforce is retiring soon?
- 4) Do you have challenges helping workers keep pace with continuing industry advances?
- 5) Do you have positions requiring skills that can be learned on the job?
- 6) Do you have difficulty attracting new and more diverse talent pools?

If a business answers yes to any of these questions, they may be ready for a registered apprenticeship program.

When talking with a potential academic implementing partner/training facility, relevant questions can include¹¹⁰:

- 1) Who will be responsible for implementing the program?
- 2) Does this institution align with the skills we are trying to develop?
- 3) Are teachers certified in necessary credentials?
- 4) What is their knowledge of the local labor market?
- 5) How far is the partner from on-the-job training locations?
- 6) What is their community reputation?
- 7) Do they partner with other companies, and what is their track record?
- 8) What are their graduation rates?

Yet, not only does it matter that businesses have a demonstrable need, but also that new apprenticeship programs can provide benefits for apprenticeship partners. Fledgling apprenticeship programs should be able to provide answers to the following questions for potential partners.

- 1) How will each of your partners benefit? How might these benefits change over time, and how sustainable are they?
- 2) How many highly-trained apprentices will this program produce annually? Are there positions available in local industries to absorb new journeymen?

Formulating Program Design

While apprenticeships vary in design, each should be tailored to accommodate the specific needs of partner employers, student apprentice profiles, format of training required, and community college and/or implementing partner conditions. This includes factors such as:

- 9) Will your program design be time-based, competency-based, or a hybrid? Why?
- 10) Will your program be a traditional, front-loaded, or segmented model? Why?
- 11) Have you identified limited scheduling options? (Y/N)
 - a. Consideration should be taken for adjunct faculty and students who work full-time. Courses may need to be offered at various times including at night, weekends, and over summer (in addition to typical options during the day).
- 12) Can you identify supplemental support for training programs?

¹¹⁰http://www.themanufacturinginstitute.org/~media/53456D700856463091B62D1A3DA262F4/Full_Apprenticeship_Playbook.pdf

- 13) What technical training is required immediately?
- 14) How will receiving this credential benefit apprenticeship graduates?

Training Facilities and Trainers

- 1) What are the potential opportunities to offer additional factory-level recurrent training at the campus for local industry?
- 2) Can you identify suitable lecture space? Where?
- 3) Can you identify suitable lab space? Where?
- 4) Do you have funds for the full apprenticeship trainers?
- 5) Can you identify a faculty that meets the criteria?
- 6) Can you identify a potential full-time instructor?
- 7) Can you train faculty to use existing curricula? How will Train-the-Training Courses be offered?