

Cuyamaca CTE PLOs

Unit Name	PLO Name	PLO	PLO Status
SLO (CTE - Auto Tech) - Automotive Technology (AUTO)	1	Perform technical and competent repairs, and professional level diagnosis and descriptions of necessary repairs, of various vehicles and designed systems, for independent dealerships and other affiliated businesses.	Active
	2	Diagnose analytically, service and maintain automobiles using recommended procedures, special tools, and service publications, and demonstrate knowledge by properly describing cause, effect, and costs to consumers.	Active
	3	Graduate and continue university education, and advance in position as an automotive technician, service manager, business owner, engineer, or desired career goals, and by additional experience and education demonstrate capability to master new technology systems and components as they are introduced, and become a leader in the transportation industry.	Active
	4	Provide customer service and business management expertise by attending various required ASCCA meetings, college courses, and training seminars to promote the ethics standards of the association, and other affiliated professional organizations and businesses.	Active
SLO (CTE - B&PS) - Business Administration (BUS)	Accounting & Certificate-1	Use personal and ethical frameworks to respond to ethical dilemmas.	Active
	Accounting & Certificate-2	Articulate the role of accounting within economic or industry environments through effective communication.	Active
	Accounting & Certificate-3	Demonstrate analytical and information technology skills needed to solve business problems or give recommendations to improve business processes.	Active
	Bookkeeping Certificate-1	Articulate economic and industry issues and the role of accounting within that environment.	Active
	Bookkeeping Certificate-2	Apply bookkeeping concepts, principles, standards and processes.	Active
	Bookkeeping Certificate-3	Demonstrate information technology skills as they apply to today's business environment to solve business problems and to communicate those solutions.	Active
	Bookkeeping Certificate-4	Demonstrate analytical skills through finding, organizing, assessing and	Active

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	Bookkeeping Certificate-4	analyzing data appropriate to a given situation.	Active
	Bookkeeping Certificate-5	Provide insightful advisory judgments and recommendations regarding the accounting for and the business implications of events, conditions, circumstances, and transactions that give rise to business opportunities or problems.	Active
	Bookkeeping Certificate-6	Use personal and ethical frameworks to respond to ethical dilemmas.	Active
	Business Administration & Certificate-1	Apply accounting concepts and methods to interpret financial statements for evaluating the financial position and performance of organizations.	Active
	Business Administration & Certificate-2	Recognize and appropriately respond to ethical and legal concerns relating to human resource and organizational management.	Active
	Business Administration & Certificate-3	Identify and analyze business problems or opportunities and effectively communicate recommendations for courses of actions.	Active
	Business Administration For Transfer (AS-T)-1	Recognize and appropriately respond to ethical and legal concerns relating to human resource and organizational management.	Active
	Business Administration For Transfer (AS-T)-2	Identify and analyze business problems or entrepreneurial opportunities and effectively communicate recommendations for courses of actions.	Active
	Business General & Certificate-1	Apply accounting concepts and methods to interpret financial statements for evaluating the financial position and performance of organizations.	Active
	Business General & Certificate-2	Recognize and appropriately respond to ethical and legal concerns relating to human resource and organizational management.	Active
	Business General & Certificate-3	Identify and analyze business problems or opportunities and effectively communicate recommendations for courses of actions.	Active
	Entrepreneurship-Small Business Management & Certificate-1	Recognize and appropriately respond to ethical and legal concerns relating to human resource and organizational management.	Active
	Entrepreneurship-Small Business Management & Certificate-2	Identify and analyze business problems or entrepreneurial opportunities and effectively communicate recommendations for courses of actions.	Active
	Entrepreneurship-Small Business Management & Certificate-3	Demonstrate an understanding of the requirements to start a new venture, including the basics of leadership, team building, finance, marketing and management.	Active

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	Entrepreneurship-Small Business Management & Certificate-4	Establish connections with the entrepreneur community within their profession.	Active
	Management & Certificate-1	Recognize and appropriately evaluate the ethical and legal concerns inherent in various business practices.	Active
	Management & Certificate-2	Identify the differences in leadership and management theories and how they facilitate the overall effectiveness of domestic and multinational business operations.	Active
	Management & Certificate-3	Identify and assess business problems from a subordinate and managerial perspective.	Active
	Management & Certificate-4	Identify and analyze business problems or entrepreneurial opportunities and effectively communicate recommendations for courses of actions.	Active
SLO (CTE - B&PS) - Business Office Technology (BOT)	Administrative Assistant & Certificate-1	Explain the basic language and concepts within the field of business office technology.	Active
	Administrative Assistant & Certificate-2	Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.	Active
	Business Information Worker Certificate-1	Use computer input devices to properly and efficiently create and edit documents in word processing and spreadsheet programs, such as Word and Excel, and electronic communications such as email.	Active
	Business Information Worker Certificate-2	Work effectively, respectfully, ethically and professionally with people of diverse ethnic, cultural, gender and other backgrounds, and with people of different organizational roles, social affiliations, and personalities.	Active
	Business Information Worker Certificate-3	Communicate effectively and professionally in business situations through physical or virtual presence, writing, speaking, and electronic media.	Active
	Business Office Technology & Certificate-1	Explain the basic language and concepts within the field of business office technology.	Active
	Business Office Technology & Certificate-2	Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.	Active
	Executive Assistant & Certificate-1	Explain the basic language and concepts within the field of business office technology.	Active
	Executive Assistant & Certificate-2	Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and	Active

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	Executive Assistant & Certificate-2	electronic communications such as email.	Active
	Office Assistant Level I (Certificate of Specialization)-1	Explain the basic language and concepts within the field of business office technology.	Active
	Office Assistant Level I (Certificate of Specialization)-2	Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.	Active
	Office Assistant Level II (Certificate of Specialization)-1	Explain the basic language and concepts within the field of business office technology.	Active
	Office Assistant Level II (Certificate of Specialization)-2	Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.	Active
	Office Professional (Certificate of Specialization)-1	Explain the basic language and concepts within the field of business office technology.	Active
	Office Professional (Certificate of Specialization)-2	Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.	Active
	Office Software Specialist Level I (Certificate of Specialization)-1	Explain the basic language and concepts within the field of business office technology.	Active
	Office Software Specialist Level I (Certificate of Specialization)-2	Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.	Active
	Office Software Specialist Level II (Certificate of Specialization)-1	Explain the basic language and concepts within the field of business office technology.	Active
	Office Software Specialist Level II (Certificate of Specialization)-2	Use computer input devices (e.g., keyboard and mouse) to properly and efficiently create and edit documents in word processing, spreadsheet, and presentation programs such as Word, Excel, and PowerPoint, and electronic communications such as email.	Active
SLO (CTE - B&PS) - Paralegal (PARA)	1-Paralegal Certificate	Apply the research, analytical skills and college-level writing abilities necessary to assist attorneys in the practice of law.	Active
	2-Paralegal Certificate	Conduct oneself in an ethical and professional manner when confronted with a law office related conflict scenario.	Active
SLO (CTE - B&PS) - Real Estate (RE)	Broker's License Certificate-1	Differentiate and describe the essential elements and legal effects of various real estate documents, steps in an escrow, real estate financing and investment, and real estate valuation techniques.	Active

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SLO (CTE - B&PS) - Real Estate (RE)	Broker's License Certificate-1		Active
	Broker's License Certificate-2	Differentiate and describe how to conduct oneself in a professional and ethical manner in any real estate office.	Active
	Real Estate & Certificate-1	Differentiate and describe the essential elements and legal effects of various real estate documents, steps in an escrow, real estate financing and investment, and real estate valuation techniques.	Active
	Real Estate & Certificate-2	Differentiate and describe how to conduct oneself in a professional and ethical manner in any real estate office.	Active
SLO (CTE - CD) - Child Development (CD)	Child and Adolescent Development for Transfer (AA-T)-1	Integrate the key developmental concepts and teaching strategies into a cogently articulated philosophy of child and adolescent education and care.	Active
	Child and Adolescent Development for Transfer (AA-T)-2	Employ curriculum that is well planned, developmentally appropriate and based on the interests and needs of children and adolescents.	Active
	Child and Adolescent Development for Transfer (AA-T)-3	Implement effective guidance strategies with children and adolescents.	Active
	Child and Adolescent Development for Transfer (AA-T)-4	Demonstrate the ability to plan programs for children and adolescent which enhance their physical, intellectual, emotion and social development.	Active
	Early Childhood Education (AST); Infants and Toddlers; Preschool Children-1	Integrate the key developmental concepts and teaching strategies into a cogently articulated philosophy of early childhood education and care.	Active
	Early Childhood Education (AST); Infants and Toddlers; Preschool Children-2	Employ appropriate classroom organizational and management techniques in a variety of early childhood education settings, including the implementation of curriculum that is well planned, developmentally appropriate, and based on the interests and needs of the children.	Active
	Early Childhood Education (AST); Infants and Toddlers; Preschool Children-3	Survey, assemble, and expand curricula resources for use in specific early childhood classrooms and centers.	Active
	Early Childhood Education (AST); Infants and Toddlers; Preschool Children-4	Apply and implement effective and sensitive discipline and guidance strategies directly with children.	Active
	Early Childhood Education (AST); Infants and Toddlers; Preschool Children-5	Clearly demonstrate the ability to plan child development programs which deliberately intend to advance, stimulate or otherwise enhance children's physical, intellectual, emotional and social development in ways which are appropriate to the children's developmental level.	Active
	Early Childhood Education (AST);	Assess their own professional competence and progress and develop a	Active

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	Infants and Toddlers; Preschool Children-6	plan for professional career steps and growth.	Active
	Early Childhood Intervention-1	Observe and document specific behaviors, skills, and interests of young children.	Active
	Early Childhood Intervention-2	Plan and implement schedule, curriculum, and guidance strategies adapted for a young child with special needs.	Active
SLO (CTE - CD) - Education (ED)	Elementary Education (AAT)-1	Demonstrate interpersonal skills in a diverse setting	Active
	Elementary Education (AAT)-10	Organize thoughts and ideas in both oral and written format	Active
	Elementary Education (AAT)-2	Demonstrate effective communication in teaching and learning environments.	Active
	Elementary Education (AAT)-3	Use arithmetical, algebraic, geometric and statistical methods to solve problems	Active
	Elementary Education (AAT)-4	Describe general principles of the political institutions and government of the United States	Active
	Elementary Education (AAT)-5	Assess how social issues are influenced by geographical and historical processes	Active
	Elementary Education (AAT)-6	Analyze basic concepts of physical and biological science to evaluate scientific information and solve scientific problems	Active
	Elementary Education (AAT)-7	Analyze the principle elements of representative examples of art, architecture, literature, theater, philosophy, music, dance, film, or other relevant areas of cultural and/or intellectual creative	Active
	Elementary Education (AAT)-8	Demonstrate an awareness of the historical and philosophical context of representative areas, movements, media, works, or styles of cultural and/or intellectual creativity	Active
	Elementary Education (AAT)-9	Demonstrate the ability to write effectively	Active
	Elementary Education (Degree)-1	Demonstrate global awareness and cultural sensitivity.	Active
	Elementary Education (Degree)-2	Demonstrate interpersonal skills in a diverse setting	Active
	Elementary Education (Degree)-3	Demonstrate effective communication in teaching and learning environments.	Active
	Elementary Education (Degree)-4	Demonstrate technological awareness.	Active
	Elementary Education (Degree)-5	Be prepared to request certification of lower division general education course work required by the California State University system.	Active
SLO (CTE - CIS-GD) - Computer Information Systems (CIS)	Cisco Certified Network Associate (Certificate of Specialization)-1	Describe the operational characteristics and troubleshooting techniques for: the OSI and TCP/IP networking models; general LAN design; network	Active

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SLO (CTE - CIS-GD) - Computer Information Systems (CIS)	Cisco Certified Network Associate (Certificate of Specialization)-1	routers, switches, and wireless routers; the RIP, EIGRP, and OSPF interior gateway protocols (IGP); network switching principles including VLANs, inter-VLAN routing, VTP, STP and security; the HDLC, PPP and Frame-Relay WAN protocols; network security using Access Control Lists (ACL); NAT; and DHCP.	Active
	Cisco Certified Network Associate (Certificate of Specialization)-2	Plan and design basic network topologies including switches and routers in a multiprotocol internetwork using LAN and WAN interfaces, networking addressing techniques, and terminology.	Active
	Cisco Certified Network Associate (Certificate of Specialization)-3	Configure, test, and troubleshoot network topologies consisting of routers, switches, wireless routers, and PCs using: the Cisco IOS CLI; ip addressing; interior gateway protocols; HDLC, PPP and Frame-Relay WAN protocols; VLANs; NAT; DHCP; router and switch security techniques.	Active
	Cisco Network Professional (Certificate of Specialization)-1	Describe advanced routing, switching, and troubleshooting concepts for complex enterprise networks including; enterprise network design, development, and maintenance; advanced routing protocols; VPN technologies; IPv6 ; advanced VLAN topologies; high availability and redundancy protocols; and LAN security protocols and techniques.	Active
	Cisco Network Professional (Certificate of Specialization)-2	Configure, diagnose, and troubleshoot complex enterprise router and switch networking solutions including: network performance; advanced routing protocols; VPNs; IPv6; advanced VLAN topologies; high availability and redundancy protocols; and LAN security.	Active
	Computer Support Technician (Certificate of Specialization)-1	Describe and demonstrate the ability to install, configure, upgrade, diagnose and troubleshoot a personal computer and its associated networking hardware and system software.	Active
	Network, Security and System Administration-1	Describe and demonstrate the ability to install, configure, upgrade, diagnose and troubleshoot a personal computer and its associated networking hardware and system software.	Active
	Network, Security and System Administration-2	Install, test, certify, secure, and troubleshoot copper, optical fiber, and wireless telecommunications infrastructures by constructing a system in accordance with industry standards.	Active
	Network, Security and System Administration-3	Configure, test, and troubleshoot network topologies consisting of routers, switches, wireless routers, VoIP equipment and PCs using: the Cisco IOS CLI; IP addressing; interior gateway protocols; HDLC, PPP and Frame-Relay WAN.	Active
	Web Design (Certificate of Specialization)-1	Write valid HTML and CSS code to create web content, structure and presentation.	Active
	Web Design (Certificate of Specialization)-2	Integrate industry-standard technologies and design principles to develop sites that are attractive, usable, and functional on multiple platforms and devices, including mobile devices.	Active

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	Web Design (Certificate of Specialization)-2		Active
	Web Development Degree-1	Write valid HTML and CSS code to create web content, structure and presentation.	Active
	Web Development Degree-2	Code and debug JavaScript and jQuery to develop interactive web pages.	Active
	Web Development Degree-3	Code and debug PHP and MySQL to develop dynamic (database-integrated) web applications.	Active
	Web Development Degree-4	Integrate industry-standard technologies and design principles to develop sites that are attractive, usable, and functional on multiple platforms and devices, including mobile devices.	Active
	Web Programming (Certificate of Specialization)-1	Write valid HTML and CSS code to create web content, structure and presentation.	Active
	Web Programming (Certificate of Specialization)-2	Code and debug JavaScript and jQuery to develop interactive web pages.	Active
	Web Programming (Certificate of Specialization)-3	Code and debug PHP and MySQL to develop dynamic (database-integrated) web applications.	Active
SLO (CTE - CIS-GD) - Computer Science (CS)	1-Computer Programming (Certificate of Specialization)	Develop a software solution following the systems development life cycle (SDLC) including problem analysis, solution design, implementation, testing, evaluation and recommendation for improvement.	Active
	2-Computer Programming (Certificate of Specialization)	Be proficient in at least one high-level programming language and an ability to use that language to implement software solutions in a variety of settings following the SDLC.	Active
	3-Computer Programming (Certificate of Specialization)	Recognize the need to maintain currency with software industry changes in the computing profession.	Active
SLO (CTE - CIS-GD) - Graphic Design (GD)	Digital Photography (Certificate of Specialization)-1	Create photographic images applying the principles of design.	Active
	Digital Photography (Certificate of Specialization)-2	Evaluate the aesthetic qualities and criticize works of photography.	Active
	Digital Photography (Certificate of Specialization)-3	Demonstrate the use of digital cameras and scanners. Certificate Requirements	Active
	Graphic Design Degree-1	Analyze the historical and cultural context of graphic design.	Active
	Graphic Design Degree-2	Apply the principles of design and use the design process to create graphic works.	Active

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	Graphic Design Degree-3	Evaluate the aesthetic qualities and criticize works of graphic design.	Active
	Graphic Design Degree-4	Integrate typography as part of design communication.	Active
	Graphic Design Degree-5	Apply business methods, procedures, ethics, and connections to industry.	Active
	Web Graphics (Certificate of Specialization)-1	Create graphic images in the proper formats for use on the web.	Active
	Web Graphics (Certificate of Specialization)-2	Develop web pages using proper typographic treatment and navigational devices.	Active
SLO (CTE - CT&S) - Computer Assisted Drafting & Design (CADD)	1-Building Design Industry/Manufacturing Industry	Create 3D modeling objects of various orientations including sections and elevations of objects, and identify the relationships of objects or object features to demonstrate visualization proficiency.	Active
	2-Building Design Industry/Manufacturing Industry	Identify or describe the typical characteristics and uses of common construction or manufacturing materials, products and systems, document them in drawings, and make appropriate selections based on design project requirements.	Active
	3-Building Design Industry/Manufacturing Industry	Use the latest version of 2D/3D CADD and Solid Modeling software programs (AutoCAD and SolidWorks) to create industry standard architectural or engineering drawings.	Active
	4-Building Design Industry/Manufacturing Industry	Model the habits and attitudes for success in professional employment as a CADD technician including the preparation and presentation of a professional portfolio.	Active
	5-Building Design Industry/Manufacturing Industry	Demonstrate computation, communication, critical thinking, and problem-solving skills to perform effectively as a CADD technician in the field of architecture and/or the civil, electronic, mechanical, structural, and surveying engineering fields.	Active
SLO (CTE - CT&S) - Surveying (SURV)	1 - Surveying Degree & Certificate	Measure angles and distances using electronic total stations and distance meters.	Active
	2 - Surveying Degree & Certificate	Compile field data adjusting for error from horizontal and vertical traverses.	Active
	3 - Surveying Degree & Certificate	Create typical drawing title blocks accepted by local municipalities such as the City of San Diego.	Active
	4 - Surveying Degree & Certificate	Calculate and plot contours and other features found on a topographic map.	Active
	5 - Surveying Degree & Certificate	Plot easements using bearings, distances and curve information.	Active
	6 - Surveying Degree & Certificate	Recognize and apply the appropriate vocabulary of boundary law in discussion, reading, and writing legal descriptions of boundary.	Active
	7 - Surveying Degree & Certificate	Describe and solve advanced private boundary and public lands boundary problems.	Active

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	8 - Surveying Degree & Certificate	Solve introductory property boundaries using title reports and record maps.	Active
SLO (CTE - EHSM) - Environmental Health & Safety Mgt (EHSM)	Environmental Management Certificate-1	Identify and interpret Federal, State and local regulations related to Environmental Health and Safety Management.	Active
	Environmental Management Certificate-2	Understand and analyze historical environmental laws and regulations which impact hazardous material management and their effect on the environment.	Active
	Environmental Management Certificate-3	Identify and Interpret Federal, state and local regulations related to air pollution.	Active
	Environmental Management Certificate-4	Define and describe the components of the Hazard Communication Standards required "Hazardous Communication Plan."	Active
	Environmental Management Certificate-5	Identify and describe components of Storm Water Pollution Prevention Plans in accordance with the Clean Water Act.	Active
	Environmental Management Certificate-6	Describe and define Regional Water Quality Control Board role in Clean Water Act over site and enforcement of National Pollution Discharge Elimination System (NPDES) permitting and inspections.	Active
	Environmental Management Certificate-7	Understand and analyze historical environmental laws and regulations which impact hazardous material management and their effect on the environment.	Active
	Environmental Management Certificate-8	Describe and apply terms common to the hazardous materials industry.	Active
	Environmental Management Certificate-9	Describe agencies that regulate specific hazardous materials.	Active
	Environmental Technician Degree-1	Identify and interpret Federal, State and local regulations related to Environmental Health and Safety Management.	Active
	Environmental Technician Degree-2	Understand and analyze historical environmental laws and regulations which impact hazardous material management and their effect on the environment.	Active
	Environmental Technician Degree-3	Identify and Interpret Federal, state and local regulations related to air pollution.	Active
	Environmental Technician Degree-4	Define and describe the components of the Hazard Communication Standards required "Hazardous Communication Plan."	Active

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	Environmental Technician Degree-4		Active
	Environmental Technician Degree-5	Identify and describe components of Storm Water Pollution Prevention Plans in accordance with the Clean Water Act.	Active
	Environmental Technician Degree-6	Describe and define Regional Water Quality Control Board role in Clean Water Act over site and enforcement of National Pollution Discharge Elimination System (NPDES) permitting and inspections.	Active
	Environmental Technician Degree-7	Understand and analyze historical environmental laws and regulations which impact hazardous material management and their effect on the environment.	Active
	Environmental Technician Degree-8	Describe and apply terms common to the hazardous materials industry.	Active
	Environmental Technician Degree-9	Describe agencies that regulate specific hazardous materials.	Active
	Occupational Safety And Health (OSH) Management Certificate-1	Identify and evaluated hazardous material routes of entry, toxic effect, risk evaluation and control measures to reduce their exposure and effects.	Active
	Occupational Safety And Health (OSH) Management Certificate-2	Describe and apply terms common to the hazardous materials industry.	Active
	Occupational Safety And Health (OSH) Management Certificate-3	Apply California and Federal safety standards to assess worksites and recognize hazardous conditions and/or noncompliance.	Active
	Occupational Safety And Health (OSH) Management Certificate-4	Assess and evaluate job processes to identify and implement appropriate risk management strategies.	Active
	Occupational Safety And Health (OSH) Management Certificate-5	Describe agencies that regulate specific hazardous materials.	Active
	Occupational Safety And Health (OSH) Management Certificate-6	Interpret Federal, State and Local regulations governing Construction Safety.	Active
	Occupational Safety And Health (OSH) Management Certificate-7	Define and apply "safe work practices", "worker Right to Know" and Community Right to Know" requirements.	Active
	Occupational Safety And Health (OSH) Management Certificate-8	Identify and evaluated hazardous material routes of entry, toxic effect, risk evaluation and control measures to reduce their exposure and effects.	Active
	Occupational Safety And Health (OSH) Management Certificate-9	Identify key mandatory components of an Injury Illness Prevention Plan (IIPP) in compliance with SB198.	Active

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	Occupational Safety And Health (OSH) Technician Degree-1	Identify and evaluated hazardous material routes of entry, toxic effect, risk evaluation and control measures to reduce their exposure and effects.	Active
	Occupational Safety And Health (OSH) Technician Degree-2	Describe and apply terms common to the hazardous materials industry.	Active
	Occupational Safety And Health (OSH) Technician Degree-3	Apply California and Federal safety standards to assess worksites and recognize hazardous conditions and/or noncompliance.	Active
	Occupational Safety And Health (OSH) Technician Degree-4	Assess and evaluate job processes to identify and implement appropriate risk management strategies.	Active
	Occupational Safety And Health (OSH) Technician Degree-5	Describe agencies that regulate specific hazardous materials.	Active
	Occupational Safety And Health (OSH) Technician Degree-6	Interpret Federal, State and Local regulations governing Construction Safety.	Active
	Occupational Safety And Health (OSH) Technician Degree-7	Define and apply "safe work practices", "worker Right to Know" and Community Right to Know" requirements.	Active
	Occupational Safety And Health (OSH) Technician Degree-8	Identify and evaluated hazardous material routes of entry, toxic effect, risk evaluation and control measures to reduce their exposure and effects.	Active
	Occupational Safety And Health (OSH) Technician Degree-9	Identify key mandatory components of an Injury Illness Prevention Plan (IIPP) in compliance with SB198.	Active
SLO (CTE - OH) - Ornamental Horticulture (OH)	Arboriculture-1	Describe proper and safe principles and practices of tree climbing.	Active
	Arboriculture-2	Describe the principles of tree biology and physiology for growth management.	Active
	Arboriculture-3	Demonstrate proper tree pruning procedures per industry standards.	Active
	Arboriculture-4	Identify common biotic and abiotic problems for trees common to Southern California landscapes and list appropriate control measures.	Active
	Arboriculture-5	Conduct a visual tree assessment for tree risk or value appraisal.	Active
	Arboriculture-6	Draft a tree preservation plan for a construction site.	Active
	Floral Design-1	Identify and explain the principles and elements of design common to	Active

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	Floral Design-1	the retail floral industry and utilize these guidelines in the reproduction and construction of independent floral arrangements, events and décor.	Active
	Floral Design-2	Identify, evaluate and discuss in correct industry vocabulary fresh floral product and permanent botanical materials and hard goods.	Active
	Floral Design-3	Prepare an original event proposal based on site analysis for a special occasion to include an appropriate wholesale budget, estimate design recipes, fresh and hard goods product.	Active
	Floral Design-4	Compare and contrast retail florist businesses in shop operations, workstations, sales and consultation areas, visual displays, customer relations, and typical business practices including labor relations, insurance, advertising, accounting and license requirements.	Active
	Golf Course And Sports Turf Management-1	Demonstrate and practice standardized safety procedures as they apply to golf and sports turf management.	Active
	Golf Course And Sports Turf Management-10	Identify and describe the proper installation of irrigation system components.	Active
	Golf Course And Sports Turf Management-11	Using standard industry practices, develop guidelines and demonstrate the ability to perform proper fertilizing, pruning, mulch application and irrigation of Southern California landscapes.	Active
	Golf Course And Sports Turf Management-12	Identify and explain labor relations, business plans, and licensure requirements for the golf and sports turf industry.	Active
	Golf Course And Sports Turf Management-13	Demonstrate the ability to install concrete, masonry and plant material.	Active
	Golf Course And Sports Turf Management-2	Identify warm and cool season turf cultivars common to Southern California.	Active
	Golf Course And Sports Turf Management-3	Identify and manage primary and secondary noxious weeds.	Active
	Golf Course And Sports Turf Management-4	Identify and manage common biotic and abiotic problems associated with turf management in Southern California.	Active
	Golf Course And Sports Turf Management-5	Demonstrate knowledge of appropriate use and maintenance of equipment common to golf and sports turf management.	Active
	Golf Course And Sports Turf	Identify 88 trees and shrubs common to Southern California.	Active

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	Management-6		Active
	Golf Course And Sports Turf Management-7	Identify water quality impact on turfgrass and plant material species and the relationship to soil conditions.	Active
	Golf Course And Sports Turf Management-8	Demonstrate the impact of various water sources on golf course maintenance budgets.	Active
	Golf Course And Sports Turf Management-9	Using principles of irrigation hydraulics, calculate friction loss in pipe, determine proper pipe sizing using the friction factor and velocity limit method, and determine appropriate component sizing.	Active
	Irrigation Technology-1	Demonstrate and practice standardized safety and public health protection procedures as they apply to the irrigation industry.	Active
	Irrigation Technology-10	Install a complete irrigation system per plan, including but not limited to sprinklers, valves, valve boxes, drip irrigation, and controllers.	Active
	Irrigation Technology-2	Explain the relationships between plants and their soil and water environment including the use of recycled water.	Active
	Irrigation Technology-3	Demonstrate an understanding of landscape irrigation hydraulics.	Active
	Irrigation Technology-4	Identify irrigation system components and demonstrate their proper installation.	Active
	Irrigation Technology-5	Design efficient new and retrofitted spray and drip landscape irrigation systems for residential and commercial projects.	Active
	Irrigation Technology-6	Develop proper irrigation schedules with the use of evapotranspiration rates, precipitation rates, proper cycling of application and controller programming.	Active
	Irrigation Technology-7	Demonstrate the ability to diagnose irrigation system problems related to valves, wiring and hydraulics.	Active
	Irrigation Technology-8	Explain the importance of, and best practices for, water conservation in regards to water sources, water quality and regulations.	Active
	Irrigation Technology-9	Gain practical experience working in the landscape industry.	Active
	Landscape Design-1	Prepare conceptual landscape plans for residential clients.	Active

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	Landscape Design-10	Apply water conserving and sustainable landscape ideas to designs.	Active
	Landscape Design-11	Quantify the irrigation needs of the specified plants and prepare effective irrigation plans.	Active
	Landscape Design-12	Identify and explain business practices and legal considerations associated with a developing a landscape business.	Active
	Landscape Design-13	Gain practical experience working in the landscape industry.	Active
	Landscape Design-2	Measure a site then draft a site plan using hand drafting and computer aided drafting.	Active
	Landscape Design-3	Analyze project sites for assets and constraints.	Active
	Landscape Design-4	Create an aesthetically pleasing, sustainable, and feasible landscape design.	Active
	Landscape Design-5	Produce graphically pleasing landscape concept plans, elevations, and sections using both hand drafting and computer aided drafting techniques.	Active
	Landscape Design-6	Analyze site topography (including relief, slope and aspect) as required to prepare fine grading plans.	Active
	Landscape Design-7	Identify and describe the palate of materials used in landscape construction.	Active
	Landscape Design-8	Identify at least 250 trees, shrubs, annuals, and perennials used in Southern California landscaping.	Active
	Landscape Design-9	Demonstrate the ability to locate plants appropriately on a planting plan.	Active
	Landscape Technology-1	Demonstrate and practice standardized safety procedures as they apply to landscape installation and maintenance.	Active
	Landscape Technology-2	Explain the principles of plant structure function and plant growth.	Active
	Landscape Technology-3	Identify 175 trees, shrubs, annuals, perennials and turf grass species commonly used in Southern California landscapes.	Active
	Landscape Technology-4	Using standard industry practices, develop guidelines and demonstrate	Active

Unit Name	PLO Name	PLO	PLO Status
	Landscape Technology-4	the ability to perform proper fertilizing, pruning, mulch application and irrigation of Southern California landscapes.	Active
	Landscape Technology-5	Establish guidelines for best management practices (BMPs) in water conservation including plant selection, soil management and water management.	Active
	Landscape Technology-6	Demonstrate the ability to install concrete, masonry, plant material, and irrigation systems.	Active
	Landscape Technology-7	Identify common biotic and abiotic problems common to Southern California landscapes and list appropriate control measures.	Active
	Landscape Technology-8	Gain practical experience working in the landscape industry.	Active
	Nursery Technology-1	Identify 250 trees, shrubs, annuals, perennials and turf grass species commonly used in Southern California landscapes.	Active
	Nursery Technology-2	Explain the principles of plant structure function and plant growth.	Active
	Nursery Technology-3	Perform propagation of plants, both sexually and asexually, with standard industry tools, techniques and media.	Active
	Nursery Technology-4	Cultivate horticultural crops in both natural and artificial environments common in the horticulture industry, including diagnosing and correcting biotic and abiotic problems affecting these crops.	Active
	Nursery Technology-5	Identify soil composition and correct soil problems to enhance plant growth.	Active
	Nursery Technology-6	Utilize principles of landscape design to assist clients in the selection of appropriate plant materials for landscape use.	Active
	Nursery Technology-7	Identify and describe labor relations, business plans, and cost estimating and regulatory requirements for the nursery industry.	Active
	Nursery Technology-8	Gain practical experience working in the landscape industry.	Active
	Sustainable Urban Landscapes-1	Use industry accepted standards to conduct site evaluations and determine site assets and constraints for the development of aesthetically pleasing, sustainable, and feasible landscape designs, planting plans, and tree management plans.	Active
	Sustainable Urban Landscapes-2	Identify common biotic and abiotic problems common to Southern	Active

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	Sustainable Urban Landscapes-2	California landscapes and list appropriate control measures including identification of soil problems and sustainable soil management practices.	Active
	Sustainable Urban Landscapes-3	Utilize standard industry practices and principles of plant structure, function and plant growth to develop guidelines and demonstrate the ability to perform proper fertilizing, pruning, mulch application and irrigation of Southern California landscapes.	Active
	Sustainable Urban Landscapes-4	With an understanding of the relationships between plants and their soil and water environment, develop proper irrigation schedules with the use of evapotranspiration rates, precipitation rates, proper cycling of application, and controller programming.	Active
	Sustainable Urban Landscapes-5	Use currently accepted research in the area of water conservation relating to water sources, water quality and regulations to establish guidelines for best management practices in water conservation including plant selection, soil management, and water management.	Active
	Sustainable Urban Landscapes-6	Identify sustainable elements of landscape design, installation, and management, including 175 trees, shrubs, annuals, perennials and turf grass species commonly used in Southern California landscapes, hardscape alternatives, and management practices including business practices and legal considerations.	Active
	Sustainable Urban Landscapes-7	Gain practical experience working in the landscape industry.	Active
SLO (CTE - WWTR) - Water/Waste Water Technology (WWTR)	Backflow And Cross Connection Control-1	Differentiate between different backflow devices and methods.	Active
	Backflow And Cross Connection Control-10	Articulate the AWWA and ABPA testing st	Active
	Backflow And Cross Connection Control-2	Compare and contrast the effective uses of backflow devices and explain their limitations.	Active
	Backflow And Cross Connection Control-3	Describe the specifications, installation, and operation of typical devices used in backflow prevention and testing and explain their proper installation.	Active
	Backflow And Cross Connection Control-4	Perform accurate backflow prevention tests using proper test equipment.	Active
	Backflow And Cross Connection Control-5	Analyze backflow prevention test results using standardized test reporting forms.	Active
	Backflow And Cross Connection Control-6	Evaluate backflow testing device malfunctions.	Active
	Backflow And Cross Connection	Articulate the importance of proper backflow testing equipment	Active

Unit Name	PLO Name	PLO	PLO Status
	Control-7	selection and use.	Active
	Backflow And Cross Connection Control-8	Cite specific laws pertaining to cross connection control programs.	Active
	Backflow And Cross Connection Control-9	Complete basic backflow testing device repairs requiring breakdown and reassembly.	Active
	Wastewater Collection Systems-1	Define common terminology pertaining to collections system components, design, and management as well as inspection and quality control.	Active
	Wastewater Collection Systems-2	Identify the types and functions of pipes and fittings used in wastewater collection system design and management.	Active
	Wastewater Collection Systems-3	Given a wastewater collection map book, identify pipeline dimensions, pipe construction materials, direction of flow, and location of valves, services and lift stations.	Active
	Wastewater Collection Systems-4	Describe in detail basic underground location and leak detection, trenching and shoring, and backfill and compaction methods of construction used in the field.	Active
	Wastewater Collection Systems-5	Describe the nine basic cleaning methods and basic principles involved in hydraulic and mechanical cleaning methods.	Active
	Wastewater Collection Systems-6	List and describe the operation of common valves used in a wastewater collection system.	Active
	Wastewater Collection Systems-7	Perform basic mathematical computations and conversions relating to wastewater collection systems, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.	Active
	Wastewater Treatment Operator-1	Describe wastewater collection system components.	Active
	Wastewater Treatment Operator-2	Identify the characteristics and sources of municipal sewage.	Active
	Wastewater Treatment Operator-3	Describe the specifications, installation, and operation of typical devices used in backflow prevention and testing and explain their proper installation.	Active
	Wastewater Treatment Operator-4	Describe the basic principles of conventional wastewater treatment.	Active
	Wastewater Treatment Operator-5	Compare and contrast wastewater treatment unit processes including preliminary, primary, secondary and tertiary treatment.	Active
	Wastewater Treatment Operator-6	Explain the basic principles of preliminary, primary, secondary and tertiary treatment.	Active
	Wastewater Treatment Operator-7	Perform basic mathematical calculations and conversions relating to water flow, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.	Active
	Wastewater Treatment Operator-8	Recognize and comment on safety procedures applicable to service and operation of wastewater collection and treatment systems, including potential problems.	Active
	Water Distribution System	Identify sources and characteristics of water common to water	Active

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	Operations-1	distribution systems.	Active
	Water Distribution System Operations-10	Specify necessary procedures needed to safely complete field work in a water distribution system.	Active
	Water Distribution System Operations-11	Compare and contrast factors considered in the selection of pipe and different types of water meters.	Active
	Water Distribution System Operations-12	Demonstrate the ability to read meters and calculate the meter accuracy.	Active
	Water Distribution System Operations-2	Compare and contrast the different types of water distribution systems currently used in the United States.	Active
	Water Distribution System Operations-3	Identify drinking water public health hazards and water quality standards common to the industry.	Active
	Water Distribution System Operations-4	Using calculations and conversions, determine water flow, pressure, volume, velocity and force, and chemical dosage used in water distribution systems.	Active
	Water Distribution System Operations-5	Identify and compare methods used to handle, install and repair water distribution pipe.	Active
	Water Distribution System Operations-6	Explain principles of pump operation for the types of pumps used in water distribution systems including common problems, necessary adjustments, and typical packing gland problems.	Active
	Water Distribution System Operations-7	Explain the electrical principles involved in control circuits common to water distribution systems.	Active
	Water Distribution System Operations-8	Explain the required safe handling and storage of chlorine used in water distribution systems.	Active
	Water Distribution System Operations-9	Check and utilize water maps and drawings to determine location, type and characteristics of water distribution systems.	Active
	Water Resources Management-1	Describe the essential uses of water, the infrastructure that has been developed to meet demand, and the problems the water industry faces.	Active
	Water Resources Management-2	Identify a specified number of legal and financial constraints which complicate efficient and effective water resource management.	Active
	Water Resources Management-3	Explain the concept and importance of water portfolio diversification.	Active
	Water Resources Management-4	Describe the political/organizational structures and list the major agencies involved in providing water in the greater San Diego region.	Active
	Water Resources Management-5	Compare and contrast the sources of wastewater, the major collection/transportation networks, and the major wastewater treatment/reclamation facilities operating in San Diego County.	Active
	Water Resources Management-6	Identify the major regulatory agencies that monitor and regulate the water/wastewater industry.	Active
	Water Resources Management-7	Explain how the current carbon footprint of the water and wastewater	Active

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	Water Resources Management-7	infrastructure significantly impacts California's energy and power demands.	Active
	Water Resources Management-8	Compare and contrast a specified number of resource recovery/alternative treatment methods.	Active
	Water Treatment Plan Operator-10	Perform basic mathematical calculations and conversions relating to water flow, pressure, volume, velocity, chemical dosage, and hydraulic and organic loading.	Active
	Water Treatment Plan Operator-11	Determine appropriate safety procedures applicable to service and operation of water treatment and distribution systems including potential problems.	Active
	Water Treatment Plan Operator-6	Explain and prepare a plan for the use of chlorine including the characteristics of and methods for storing, feeding and measuring chlorine including the effects of moisture, pH and temperature on feed rate, and the health and safety effects, procedures and personal protective requirements.	Active
	Water Treatment Plan Operator-7	Determine the methods used for coagulation, flocculation and sedimentation including common chemicals used, feed systems, effects of time temperature, turbidity and pH, and the measurement of turbidity and color.	Active
	Water Treatment Plan Operator-8	Compare and contrast the six basic water quality parameters and explain in detail microbiological and chemical components including sampling requirements and properties.	Active
	Water Treatment Plan Operator-9	Demonstrate through testing basic knowledge of the regulations for monitoring water quality and performing water treatment.	Active
	Water Treatment Plant Operator-1	Identify in detail characteristics and sources of ground water and surface water supplies including the chemical, physical and bacterial characteristics, and explain the effects on quality of geological formations, stratifications, and watershed management.	Active
	Water Treatment Plant Operator-2	Compare the basic principles of each water treatment process and list them in order performed.	Active
	Water Treatment Plant Operator-3	Identify and classify water distribution system components.	Active
	Water Treatment Plant Operator-4	Explain pump cavitation, corrosion, cross-connection, air valves, head loss and main flushing in relation to water and wastewater collection, distribution, and treatment.	Active
	Water Treatment Plant Operator-5	Compare and contrast the basic principles of each water treatment process and list them in order performed.	Active