

CERTIFICATE CODE	CERTIFICATE NAME	CIP CODE	CIP NAME
V010000 College/University Programs	Agriculture Education	010000	Agriculture, General
		010001	Supervised Agricultural Experience
		010101	Agricultural Business and Management, General
		010102	Agribusiness/Agricultural Business Operations
		010103	Agricultural Economics
		010104	Farm/Farm & Ranch Management
		010105	Agriculture Farm Supplies, Retailing, and Wholesaling
		010106	Agricultural Business Technology
		010201	Agricultural Mechanization, General
		010204	Agriculture Power Machinery Operation
		010205	Agricultural Mechanics & Equipment/Machine Technology
		010301	Agricultural Production Operations, General
		010302	Animal/Livestock Husbandry & Production
		010303	Aquaculture
		010306	Dairy Husbandry & Production
		010307	Horse Husbandry/Equine Science and Management
		010401	Agricultural and Food Products Processing
		010504	Dog/Pet/Animal Grooming
		010507	Equestrian/Equine Studies
		010601	Applied Horticulture/Horticulture Operations, General
		010602	Plant Systems Operation(s) & Management in Horticulture & Greenhouse
		010603	Ornamental Horticulture
		010604	Greenhouse Operations & Management
		010605	Landscaping & Grounds Keeping
		010606	Plant Nursery Operations & Management
		010607	Turf & Turf Grass Management
		010608	Floriculture/Floristry Operations & Management
		010701	International Agriculture
		010802	Agricultural Communications/Journalism
		010901	Animal Science, General
		010906	Livestock Management
		010907	Poultry Science
		011001	Food Science
		011002	Food Technology and Processing
		011101	Plant Sciences, General
		011102	Agronomy and Crop Science
		011103	Horticultural Science
		011106	Range Science and Management
		011201	Soil Science and Agronomy, General
		030101	Natural Resources/Conservation, General
		030103	Environmental Studies
		030198	Sustainable Design and Technology
		030201	Natural Resources Management & Policy
		030204	Natural Resources Economics
		030205	Water, Wetlands and Marine Resources Management
		030206	Land Use Planning and Management/Development
		030301	Fishing & Fisheries Sciences & Management
		030501	Forestry, General
		030506	Forest Management/Forest Resources Management
		030508	Urban Forestry
		030510	Forest Resources Production and Management
030511	Forest Technology/Technician		
030601	Wildlife & Wild Lands Science & Management		
261201	Agricultural Biotechnology		
261302	Marine Biology and Biological Oceanography		
510808	Veterinarian Assistant		

CERTIFICATE CODE	CERTIFICATE NAME	OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
AGRICULTURE AND SCIENCE PATHWAY				
V010101	Agribusiness	Occupational experience in farming, ranch management, or other agriculture related business	010101 010102 010103 010104 010106	Agricultural Business and Management, General Agribusiness/Agricultural Business Operations Agricultural Economics Farm/Farm & Ranch Management Agricultural Business Technology
V010201	Agricultural Mechanics	Repair and maintenance of farm equipment or other agriculture related equipment	010201 010204 010205	Agricultural Mechanization, General Agriculture Power Machinery Operations Agricultural Mechanics & Equipment/Machine Technology
V010300	Agricultural Production	Management of agriculture animal/livestock, dairy, ranch production or other agriculture related business	010301 010302 010306 010906	Agricultural Production Operations, General Animal/Livestock Husbandry & Production Dairy Husbandry & Production Livestock Management
V010303	Aquaculture	Fresh water and salt water fish farming, or other agriculture related aquaculture business	010303 030301 261302	Aquaculture Fishing & Fisheries Sciences & Management Marine Biology and Biological Oceanography
V010601	Horticulture	Greenhouse operations, landscaping, grounds keeper, plant nursery, turf management, or other agriculture related horticulture business	010601 010602 010604 010605 10606 010607 011103 030508 030198	Applied Horticulture/Horticulture Operations, General Plant Systems Operation(s) & Management in Horticulture & Greenhouse Greenhouse Operations & Management Landscaping & Grounds Keeping Plant Nursery Operations & Management Turf & Turf Grass Management Horticultural Science Urban Forestry Sustainable Design and Technology
V010603	Floriculture	Floral services from supply to delivery or other agriculture related floral business	010603 010608	Ornamental Horticulture Floriculture/Floristry Operations & Management
V011001	Agriculture Food Science	Industry experience in converting raw agriculture produce into processed forms suitable for direct human consumption and the storage of such products.	011001	Food Science
V030101	Natural Resources	Environmental work in conservation of air, soil, water, land, fish and wildlife, and plant resources. Work in the forestry industry or other agriculture related natural resources business	030101 030103 030201 030204 030205 030206 030501 030506 030508 030510 030511 030601	Natural Resources/Conservation, General Environmental Studies Natural Resources Management & Policy Natural Resources Economics Water, Wetlands and Marine Resources Management Land Use Planning and Management/Development Forestry, General Forest Management/Forest Resources Management Urban Forestry Forest Resources Production and Management Forest Technology/Technician Wildlife & Wild Lands Science & Management
V410301	Chemical Technology	Work in the Bio-Technology industry	260103 261201 261202	Biotechnology Body Systems Agricultural Biotechnology Health Science and Biotechnology
V510808	Veterinarian Assistant	Veterinarian or Veterinarian assistant	510808 10901	Veterinarian Assistant Animal Science General

CERTIFICATE CODE	CERTIFICATE NAME	CIP CODE	CIP NAME
V070000 College/University Programs	Business Education	090701	TV/Radio Broadcast Journalism Technology
		091001	Publishing
		100201	Photography and Video Foundations
		100290	Visual Communications Foundations
		100301	Graphic Communication Foundations
		100303	Prepress/Desktop Publishing and Digital Imaging
		100304	Animation, Interactive Technology, Video Games and Special Effects
		110103	Fundamentals of Information Technology
		110201	Computer Programming
		110601	Digital Communication Tools
		110699	Office User Specialist
		110801	Webpage/Digital/Multimedia and Information Resource Design
		110802	Data Modeling and Database Administration
		110803	Video Game Design/Digital Computer Application for Game Design
		110901	Computer Systems Networking and Telecommunications
		111004	Web/Multimedia Management and Webmaster
		111006	Computer Support Specialist
		190401	Consumer and Family Resources
		220001	Business Law
		220301	Legal Administrative Assistant
		231101	Technical Communications
		270305	Financial Math
		279998	Business Math
		430116	Cyber/Computer Forensics
		450601	Economics
		520000	Introduction to Business
		520201	Business Administration Management
		520204	Business Office Management
		520208	Electronic Commerce
		520211	Project Management
		520301	Accounting
		520302	Accounting Technology
		520401	Business Procedures and Administrative Support Services
		520486	Recordkeeping
		520501	Business Communications
		520701	Entrepreneurship
		520801	Finance
		520803	Banking and Financial Services
		520905	Restaurant/Food Service Management
		521101	International Business and Commerce
		521400	Introduction to Marketing
521401	Marketing Management		
521501	Real Estate		
521999	Social Media Marketing		

CERTIFICATE CODE	CERTIFICATE NAME	CIP CODE	CIP NAME
V080000 College/University Programs	Marketing Education	090903	Advertising
		270305	Financial Math
		310504	Sports Recreation, and Entertainment Marketing and Management
		430116	Cyber/Computer Forensics
		450601	Economics
		520000	Introduction to Business
		520208	Electronic Commerce
		520211	Project Management
		520501	Business Communications
		520701	Entrepreneurship
		520901	Hospitality Administration/Management
		520904	Hotel/Motel Administration Management
		520905	Restaurant/Food Service Management
		521101	International Business and Commerce
		521400	Introduction to Marketing
		521401	Marketing Management
		521403	International Marketing
		521501	Real Estate
		521801	Marketing Operations
		521804	Selling Skills and Sales Operations
		521902	Fashion Merchandising
521906	Tourism Promotion Operations		
521907	Vehicle Parts and Accessories Marketing Operations		
521999	Social Media Marketing		

CERTIFICATE CODE	CERTIFICATE NAME	CIP CODE	CIP NAME
V078000 College/University Programs	Business and Marketing Education	090701	TV/Radio Broadcast Journalism Technology
		090903	Advertising
		091001	Publishing
		100201	Photography and Video Foundations
		100290	Visual Communications Foundations
		100301	Graphic Communication Foundations
		100303	Prepress/Desktop Publishing and Digital Imaging
		100304	Animation, Interactive Technology, Video Games and Special Effects
		110103	Fundamentals of Information Technology
		110201	Computer Programming
		110601	Digital Communication Tools
		110699	Office User Specialist
		110801	Webpage/Digital/Multimedia and Information Resource Design
		110802	Data Modeling and Database Administration
		110803	Video Game Design/Digital Computer Application for Game Design
		110901	Computer Systems Networking and Telecommunications
		111004	Web/Multimedia Management and Webmaster
		111006	Computer Support Specialist
		190401	Consumer and Family Resources
		220001	Business Law
		220301	Legal Administrative Assistant
		231101	Technical Communications
		270305	Financial Math
		279998	Business Math
		310504	Sports Recreation, and Entertainment Marketing and Management
		430116	Cyber/Computer Forensics
		450601	Economics
		520000	Introduction to Business
		520201	Business Administration Management
		520204	Business Office Management
		520208	Electronic Commerce
		520211	Project Management
		520301	Accounting
		520302	Accounting Technology
		520401	Business Procedures and Administrative Support Services
		520486	Recordkeeping
		520501	Business Communications
		520701	Entrepreneurship
		520801	Finance

520803	Banking and Financial Services
521101	International Business and Commerce
520208	Electronic Commerce
520501	Business Communications
520701	Entrepreneurship
520901	Hospitality Administration/Management
520904	Hotel/Motel Administration Management
520905	Restaurant/Food Service Management
521401	International Business and Commerce
521400	Introduction to Marketing
521401	Marketing Management
521403	International Marketing
521501	Real Estate
521801	Marketing Operations
521804	Selling Skills and Sales Operations
521902	Fashion Merchandising
521906	Tourism Promotion Operations
521907	Vehicle Parts and Accessories Marketing Operations
521999	Social Media Marketing

Subcategory Specialty Areas for Business Education				
CERTIFICATE CODE	CERTIFICATE NAME	OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
V091001	Publishing	Newspaper, magazine, or book publishing	091001	Publishing
V520100	Business Management	Management level business experience	270305 450601 520000 520201 520204 520208 520211 520401 520501 520801 520905 521101 521400 521401 521501 521999	Financial Math Economics Introduction to Business Business Administration Management Business Office Management Electronic Commerce Project Management Business Procedures and Administrative Support Services Business Communications Finance Restaurant/Food Service Management International Business and Commerce Introduction to Marketing Marketing Management Real Estate Social Media Marketing
V520300	Accounting and Related Programs	Accountant, bookkeeper, and work in accounting operations of a business	270305 279998 520301 520302 520486 520801	Financial Math Business Math Accounting Accounting Technology Recordkeeping Finance
V520403	Legal Administrative Services	Lawyer, Para legal, law clerk, or legal secretary	220001 220301 520501	Business Law Legal Administrative Assistant Business Communications
V520404	Medical Administrative Services	Medical secretary, medical records clerk, medical insurance adjuster	510716	Medical Administrative/Executive Assistant and Medical Secretary
V520895	Banking Support Services	Support services in a bank, savings and loan or credit union (teller, loan officer, bank accounting department)	207305 279998 520803 520801	Financial Math Business Math Banking and Financial Services Finance
V521206	Computer Application & Related Programs	Use of computer software, word, spreadsheets, data bases, web page design, network management, computer repair or computer programming	100290 100304 110103 110201 110601 110699 110801 110802 110803 111006 231101 430116 520401 520501	Visual Communications Foundations Animation, Interactive Technology, Video Games and Special Effects Fundamentals of Information Technology Computer Programming Digital Communication Tools Office User Specialist Webpage/Digital/Multimedia and Information Resource Design Data Modeling and Database Administration Video Game Design/Digital Computer Animation for Game Design Computer Support Specialist Technical Communication Cyber/Computer Forensics Business Procedures and Administrative Support Services Business Communications
V080102	Fashion Merchandising	Retail or wholesale experience in the fashion industry	521902	Fashion Merchandising
V080301	Entrepreneurship	Ownership and operation of self owned business	270305 279998 450601 520701 520801	Financial Math Business Math Economics Entrepreneurship Finance
V080706	General Sales Operations	Direct and indirect sales, ecommerce, or supervisory or managerial retail sales	520208 521801 521804	Electronic Commerce Marketing Operations Selling Skills and Sales Operations
V520902	Lodging Management	Manager of a hotel or lodging facility	190604 520901 520904	Facilities Management Hospitality Administration/Management Hotel/Motel Administration Management
V521401	Marketing Management	Management experience in retail or marketing operation; marketing director	090903 270305 279998 310504 450601 520000 520211 521400 521401 521403 520501 520801 520905 521501 521801 521804 521906 521907 521999	Advertising Financial Math Business Math Sports Recreation, and Entertainment Marketing and Management Economics Introduction to Business Project Management Introduction to Marketing Marketing Management International Marketing Business Communications Finance Restaurant/Food Service Management Real Estate Marketing Operations Selling Skills and Sales Operations Tourism Promotion Operations Vehicle Parts and Accessories Marketing Operations Social Media Marketing
V200002 College/University Programs	Family and Consumer Sciences Education		120500 120505 130101 190000 190001 190002 190003 190401 190403 190501 190504 190601	Introduction to Foods and Related Culinary Arts Food Preparation/Professional Cooking/Kitchen Assistant Careers in Education Work and Family Foundations Personal Choices Independent Living Family Health Consumer and Family Resources Consumer Services Nutrition and Wellness Food Science, Dietetics and Nutrition Housing, Interiors, and Furnishings

			190701 Human Development 190703 Career, Community and Family Connections 190704 Family Systems 190706 Child Development/Parenting 190707 Family and Community Services 190708 Early Childhood, Education, and Services 190710 Interpersonal Relationships 190716 Teen Parenting 190726 GRADS (Graduation, Reality and Dual Skills) 190901 Textiles and Apparel 270305 Financial Math 279998 Business Math 500510 Costume Design 520211 Project Management 520905 Restaurant/Food Service Management 521902 Fashion Merchandising
V120403	Cosmetology	Licensed cosmetologist	120401 Cosmetology
V120505	Food Production and Services	Food work that includes the preparation and service of food	120500 Introduction to Foods and Related Culinary Arts 120505 Food Preparation/Professional Cooking/Kitchen Assistant 520905 Restaurant/Food Service Management
V160103	Translation and Translation Interpretation	Translator from English to another language or from another language to English	160103 Translation and Interpretation
V190403	Consumer Services	Experience in the Consumer Services industry, providing end-use advice and representational services to individuals and groups and techniques needed to protect consumers from unsafe, unreliable, and/or unhealthy products and services, including financial services	190403 Consumer Services
V190504	Food Science Dietetics and Nutrition	Experience in the Food Science, Dietetics and Nutrition industry, including risk management procedures, nutritional therapy, technology in food production and diet and nutrition analysis, and planning	120500 Introduction to Foods and Related Culinary Arts 190501 Nutrition and Wellness 190504 Food Science, Dietetics and Nutrition
V190601	Housing, Interiors and Furnishings	Experience in the Housing, Interiors, and Furnishings industry, focusing on the behavioral, social, economic, functional and aesthetic aspects of housing, interiors and furnishings, including analyzing, planning designing, furnishing and equipping residential, work and leisure spaces to meet user needs, and he related regulations and policies	190601 Housing Interiors, and Furnishings
V190707	Careers in Family and Community Services	Experience in the Family and Community Services Industry focusing on the development and implementation of public, private, and voluntary support services for individuals, families, and localities and preparing individuals to function in a variety of occupations promoting family life, and family/community development	190703 Career, Community and Family Connections 190707 Family and Community Services
V190708	Early Childhood Education and Support Services	Management in a licensed child day care facility	190708 Child Care and Support Services Management
V190901	Textiles and Apparel	Textile and apparel industry experience in product design, profitability production, merchandising customer service and business profitability	190601 Housing, Interiors and Furnishings 190901 Textiles and Apparel 500516 Costume Design
V200206	Educational Para Pro	Experience as a teacher assistant	131501 Educational Para Pro
V200212	Careers in Education	Teaching experience at the elementary, middle school or secondary level	130101 Careers in Education
V200493	Culinary Arts	Chef, work in culinary arts industry	120500 Introduction to Foods and Related Culinary Arts 120503 Culinary Arts/Chefs Training 120505 Food Production and Services 520905 Restaurant/Food Service Management
V310101	Hospitality, Recreation and Tourism	Experience in the Hospitality, Tourism and Recreation industry demonstration procedures applied to safety, security and environmental issues, and practices and skills involved in lodging occupations and travel related services, applying concepts of customer services, and managing recreational, leisure and other programs and events	310101 Hospitality, Tourism, and Recreation
V510205	Sign Language Interpreter	Experience as a sign language interpreter or signing assistant to hearing impaired	161603 Sign Language Interpretation/Interpreter

Subcategory Specialty Areas for Health Sciences Careers				
CERTIFICATE CODE	CERTIFICATE NAME	OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
V510700	Health Informatics Career	Occupational experience in a medical office (doctor, clinic, or hospital) or a certificated medical assistant.	510000 Introduction to Health Science Careers 510700 Health Informatics Careers Strand 510799 Medical Terminology 510805 Pharmacy Pre-Technician/Assistant	
V510710	Health Support Services Careers	Work at a medical facility (biomedical/clinic engineer, central service, environmental health and safety, hospital maintenance or food service)	510000 Introduction to Health Science Careers 510710 Health Support Services Careers Strand 510799 Medical Terminology	
V510800	Health Therapeutic Careers	Experience in any one (or a combination) of the following: Athletic Trainer Certified, Chiropractor, Dentist, Dental Hygienist, Dental Assistant Certified, Licensed Practical Nurse, Certified Health Care Assistant Category F, Respiratory Physical or Occupational Therapist, Physical or Occupational Therapy Assistant, Pharmacist, Medical Physician, Physician's Assistant Certified, Registered Nurse, Registered Nurse Practitioner, other occupational experience where the therapeutic strand standards and foundation standards were preformed and required training was at the Health Care Assistant Category F level or above.	190003 Family Health 510000 Introduction to Health Science Careers 510799 Medical Terminology 510800 Therapeutic Services, Other 510801 Medical Assistant 510717 Medical Intervention 510601 Dental Assisting 510913 Sports Medicine 511614 Nursing Assistant 511199 Pre-Allied Health Program 510805 Pharmacy Pre-Technician/Assistant	
V510900	Health Diagnostic Careers	Medical technologist, or clinical laboratory scientist, clinical chemist, clinical microbiologist, pathologist, or geneticist with National Certification, who has worked in an accredited laboratory under a board certified pathologist.	190003 Family Health 510000 Introduction to Health Science Careers 510900 Diagnostic Careers Strand 510717 Medical Intervention 510805 Pharmacy Pre-Technician/Assistant	
V260102	Biomedical Sciences	Experience in the biomedical fields. May use 6,000 hours of teaching in biology	190003 Family Health 260102 Biomedical Sciences 260103 Biomedical Body Systems 260104 Biomedical Intervention 510000 Introduction to Health Science Careers 510717 Medical Intervention	

			510799 Medical Terminology 511199 Pre-Allied Health Program
V261202	Health Science Biotechnology	Experience in the biotechnical fields. May use 6000 hours of teaching biology.	510000 Introduction to Health Science Careers 260103 Biotechnology-Body Systems 261202 Health Science Biotechnology 511199 Pre-Allied Health Program
V510601	Dental Assistant	Experience in one of the following: Dentist, Dental Hygienist, Dental Assistant Certified	510601 Dental Assistant
V510709	Sports Medicine	Experience in one of the following: Athletic Trainer Certified, Chiropractor, Physical or Occupational Therapist, Physical or Occupational Therapy Assistant	510799 Medical Terminology 510913 Sports Medicine
V511614	Nursing Assistant	Experience in one of the following: Registered Nurse, Registered Nurse Practitioner	510000 Introduction to Health Science Careers 510799 Medical Terminology 511614 Nursing Assistant 190003 Family Health 511199 Pre-Allied Health Program
V141000	STEM Technology	Occupational experience in one or more of the following: Science Technology Engineering Mathematics Occupational experience may include teaching in any of the above for 6,000 hours.	30198 Sustainable Design and Technology 140102 Pre-Engineering Technologies 141001 Electronics, Engineering and Design 141801 Introduction to Materials Engineering 149991 Engineering Design 1 149992 Engineering Design 2 149993 Engineering Design 3 149994 Introduction to Science Research Engineering 149995 Introduction to Engineering Technology 149996 Introduction to Computer Integrated Manufacturing 149997 Digital Electronics 149998 Introduction to Aerospace Engineering 150201 Introduction to Civil Engineering and Architecture 150406 Robotics Foundations 150801 Aeronautical and Aerospace Engineering Technology 151301 Drafting and Design Technology General 151302 CAD/CADD Drafting and /or Design Technology 210198 Technology Foundations 279991 Technical Mathematics for the Trades

CERTIFICATE CODE	CERTIFICATE NAME	CIP CODE	CIP NAME
V210100 College/University Program	Technology Education	30198 100201 100290 100301 140102 149991 149992 149993 149994 149995 149996 149997 149998 150201 150406 151301 151302 151303 151304 151305 151306 210198 400891 401099 430100 460100 469998 470000 470100 470600 470601 470606 480000 480701 480703 500499	Sustainable Design and Technology Photography and Video Foundations Visual Communications Foundations Graphic Communications Foundations Pre-Engineering Technologies Engineering Design 1 Engineering Design 2 Engineering Design 3 Introduction to Science Research Engineering Introduction to Engineering Technology Introduction to Computer Integrated Manufacturing Digital Electronics Introduction to Aerospace Engineering Introduction to Civil Engineering and Architecture Robotics Foundations Drafting and Design Technology General CAD/CADD Drafting and Design Technology High-Performance Green Building Architectural Drafting and Design Civil Drafting and Civil Engineering CAD/CADD Electrical/Electronics Drafting CAD/CADD Mechanical Drafting and CAD/CADD Technology Foundations Principles of Technology Applied Material Science Technology Applied Public Safety and Security Foundations Architecture and Construction Foundations Pre-Apprenticeship Skills for the Trades Manufacturing Foundations Energy and Power Foundations Automotive Foundations Transportation, Distribution and Logistics Foundation Power Equipment Small Engine Technology/Technician Precision Production Trades Foundations Woodworking Foundations Cabinetmaking and Millwork/Mill Wright Design and Commercial Art Foundations

Subcategory Specialty Areas for Skills and Technology Sciences			
CERTIFICATE CODE	CERTIFICATE NAME	OCCUPATIONAL EXPERIENCE	CIP CODE
SKILLS AND TECHNOLOGY SCIENCES PATHWAY			
V100100	Communication Technologies	Occupational experience in one or more of the following: TV production, radio production, or audio/visual media production, graphic communication work including press work, lithographic equipment and operations, desktop, publishing, or web design, commercial photography	90701 TV/Radio Broadcast Journalism Technology 100201 Photography and Video Foundations 100202 Video Production Technology/Technician 100203 Recording Arts and Sound Reinforcement Technology 100290 Visual Communications Foundations 100301 Graphic Communications Foundations 100303 Prepress/Desktop Publishing and Digital Imaging Technology/Technician 100304 Animation, Interactive Technology, Video Graphics and Special Effects 100305 Graphics and Printing Equipment Operator and General Production 110801 Webpage/Digital/Multimedia and Information Resource Design 110803 Video Game Design/Digital Computer Application for Game Design 111004 Web/Multimedia Management and Webmaster 210198 Technology Foundations 500402 Graphic Design/Commercial and Advertising Art 500406 Commercial Photography 500499 Design and Commercial Art Foundations 500102 Digital Art 500502 Technical Theater/Theater Design and Technology 500602 Cinematography and Cinema Production
V141801	Material Engineering	Material engineer in a manufacturing plant	141801 Materials Engineering 150505 Solar and Wind Energy Technology 470100 Energy and Power Foundations
V143501	Engineering	Any work experience in engineering	140102 Pre-Engineering Technologies 149991 Engineering Design 1 149992 Engineering Design 2 149993 Engineering Design 3 149994 Introduction to Science Research in Engineering 149995 Introduction to Engineering Technology 149996 Introduction to Computer Integrated Manufacturing 149997 Digital Electronics 149998 Introduction to Aerospace Engineering
V150100	Manufacturing Technology	Work in the manufacturing industry solving production problems	30198 Sustainable Design and Technology

			140102 Pre-Engineering Technologies 144201 Mechatronics and Industrial Automation 149991 Engineering Design 1 149992 Engineering Design 2 149993 Engineering Design 3 149994 Introduction to Science Research in Engineering 149995 Introduction to Engineering Technology 149996 Introduction to Computer Integrated Manufacturing 149997 Digital Electronics 149998 Introduction to Aerospace Engineering 150201 Introduction to Civil Engineering and Architecture 150405 Industrial Robotics Technology/Technician 150406 Robotics Foundations 150613 Manufacturing Technology/Technician 151306 Mechanical Drafting and CAD/CADD 210198 Technology Foundations 470000 Manufacturing Foundations 470495 Computer Integrated Manufacturing
V 280300	JROTC	An officer in any branch of the services	280301 JROTC
V430100	Criminal Protective Services	Law enforcement as a police officer, sheriff department, military police or security operations	430100 Public Safety and Securities Foundation 430106 Forensic Science Technology 430107 Criminal Justice/Police Science 430109 Homeland Security and Loss Prevention Services 439901 Emergency Dispatcher
V430106	Forensic Technology	Work in crime forensic lab, a mortuary, or other laboratory experience	430106 Forensic Science Technology
V430203	Fire Services	Experience as a Fire fighter	430100 Public Safety and Securities Foundation 430203 Fire Science/Fire Fighting 430206 Wildland/Forest Firefighter and investigation 439901 Emergency Dispatcher
V460200	Construction Trades	All building construction and carpentry, woodworking, cabinetmaking and millwork	30198 Sustainable Design and Technology 151303 High-Performance Green Building Architectural Drafting and Design 210198 Technology Foundations 460000 Commercial Construction Trades 460100 Architecture and Construction Foundations 460201 Residential Carpentry/Carpenter 460290 Marine Carpentry/Boat Building 469998 Pre-Apprenticeship Skills for the Trades 470616 Marine Maintenance and Ship Repair Technology/Technician 480701 Woodworking Foundations 480703 Cabinetmaking and Millwork/Millwright
V460302	Electrician	Electrical work including installation and maintenance or electrical systems	30198 Sustainable/Design and Technology 141001 Electronics, Engineering and Design 151305 Electrical/Electronic Drafting CAD/CADD 150505 Solar and Wind Energy Technology 460302 Green Residential Electrician 469998 Pre-Apprenticeship Skills for the Trades
V460101	Building Maintenance Technician	Occupational experience in cleaning and care of buildings	120903 Building Service Technician
V470101	Electrical and Electronic Equipment Repair	Repair and Maintenance of electrical and electronic equipment	30198 Sustainable/Design and Technology 110901 Computer Systems Networking and Telecommunications 141001 Electrical/Electronics and Communication Engineer 144201 Mechatronics and Industrial Automation 151305 Electrical/Electronic Drafting CAD/CADD 150405 Industrial Robotics Technology/Technician 150406 Robotics Foundations 150505 Solar and Wind Energy Technology 210198 Technology Foundations 460302 Green Residential Electrician 470100 Energy and Power Foundations 470101 Electrical/Electronics Equipment installation and Repair 470104 Computer Installation and Repair Technology/Technician 470197 Home and Mobile Entertainment Electronics Installation and Repair Technician
V470110	Computer Technology	Occupational experience in one or more of the following: Computer programming, computer repair and maintenance or network management	100304 Animation, Interactive Technology, Video Graphics and Special Effects 110201 Computer Programming 110801 Web Page/Digital/Multimedia and Information Design 110802 Data Modeling and Database Administration 110803 Video Game Design/Digital Computer Application for Game Design 110901 Computer Systems Networking and Telecommunications 111004 Technical Support Services 111006 Computer Support Specialist 151201 Computer Engineering Technology Technician 151202 Computer Technology/Computer Systems Technology 210198 Technology Foundations 430116 Cyber/Computer Forensics 470104 Computer Installation and Repair Technology/Technician
V470201	Refrigeration/Air-Conditioning/Heating	Installation and repair of refrigeration, air conditioning and heating equipment	470201 Heating, Air Conditioning, Ventilation, and Refrigeration Maintenance Technology/Technician 469998 Pre-Apprenticeship Skills for the Trades
Subcategory Specialty Areas for Skills and Technology Sciences			
CERTIFICATE CODE	CERTIFICATE NAME	OCCUPATIONAL EXPERIENCE	CIP CODE CIP NAME
SKILLS AND TECHNOLOGY SCIENCES PATHWAY			
V470600	Automotive Technology	Occupational experience in one or more of the following: Auto mechanic, diesel mechanic, or small engine repair and maintenance	30198 Sustainable Design and Technology 210198 Technology Foundations 470197 Home and Mobile Entertainment Electronics Installation and Repair Technician 470600 Automotive Foundations 470601 Transportation, Distribution and Logistics Foundation 470604 NATEF/ASE Automotive Technician 470605 Diesel Mechanics and Repair 470606 Power Equipment Small Engine Technology/Technician 470611 Motorcycle Maintenance and Repair Technology/Technician 470698 Automobile/Automotive General Service Technician 521907 Vehicle Parts and Accessories Marketing Operations
V470603	Auto Body Repair	Automotive body repair	470603 Auto Body/Collision and Repair Technology/Technician 470688 Auto Detailer
V470608	Aircraft Technician	Aircraft mechanic or airframe technician	150801 Aeronautical and Aerospace Engineering Technical/Technician 470601 Transportation, Distribution and Logistics Foundation 470607 Aircraft Mechanic and Aircraft Technology/Technician 490102 Airline/Commercial Pilot and Flight Crew
V480101	Drafting	All types of drafting including CAD/CAM	100304 Animation, Interactive Technology, Video Graphics and Special Effects 140102 Pre-Engineering Technologies

			110803 Video Game Design/Digital Computer Application for Game Design 151301 Drafting and Design Technology General 151302 CAD/CADD Drafting and Design Technology 151303 High-Performance Green Building Architectural Drafting and Design 151304 Civil Drafting and Civil Engineering CAD/CAM 151305 Electrical/Electronics Drafting CAD/CADD 151306 Mechanical Drafting and CAD/CADD
V480500	Precision Metal Worker	Welding and metal work	470495 Computer Integrated Manufacturing 480000 Precision Production Trades Foundations 480503 Machine Shop Technology 480506 Sheet Metal Technology/Technician 480508 Welding Technology/Welder 480511 Metal Fabricator
V490100	Aviation Occupations	Aircraft pilot, flight crew	490102 Airline/Commercial Pilot and Flight Crew
V490300	Water Transportation/Worker	Any aspect of the water transportation industry including, Marine Science, boat building and maintenance	460290 Marine Carpentry/Boat Building 470601 Transportation, Distribution and Logistics Foundation 470616 Marine Maintenance and Ship Repair Technology/Technician 490309 Merchant Marine Officer/Crew
V500400	Commercial Design/Applied Art	Occupational experience in commercial art and wearable art. Creating, producing, and selling products including glass, metal, clay, textiles, wood, polymers, mixed media, etc.	500499 Design and Commercial Art Foundations 500402 Graphic Design/Commercial and Advertising Art 500713 Wearable Metal and Jewelry Design Technology/Technician 500797 Professional Production Art Technology/Technician
V500502	Stage Design Technician	All aspects of stage production including set design and sound systems	469998 Pre-Apprenticeship Skills for the Trades 500502 Technical Theater/Theater Design and Technology 500502 Costume Design
V600091	Diversified Occupations	Any occupational experience other than teaching	320107 Career Choices
V600092	Career Choices	Any occupational experience other than teaching	320107 Career Choices
V600096	Work-Based Learning Coordinator	No additional occupational experience required	18888 Agriculture Cooperative Worksite Experience 38888 Natural Resources and Conservation Cooperative Worksite Experience 98888 Communications/Journalism Cooperative Worksite Experience 108888 Communication Technologies Cooperative Worksite Experience 118888 Computer and Information Science and Support Services Cooperative Worksite Experience 128888 Personal and Culinary Services Cooperative Worksite Experience 138888 Education Cooperative Worksite Experience 148888 Engineering Cooperative Worksite Experience 158888 Engineering Technologies Cooperative Worksite Experience 168888 Linguistics Cooperative Worksite Experience 198888 Family and Consumer Sciences Cooperative Worksite Experience 218888 Technology Education Cooperative Worksite Experience 268888 Biology & Biomedical Sciences Cooperative Worksite Experience 288888 Government and Public Administration Cooperative Worksite 318888 Hospitality, Tourism, and Recreation Cooperative Worksite 438888 Security and Protective Service Cooperative Worksite Experience 468888 Construction Trades Cooperative Worksite Experience 478888 Mechanic and Repair Technologies Cooperative Worksite Experience 488888 Precision Production Cooperative Worksite Experience 498888 Transportation and Material Moving Cooperative Worksite Experience 508888 Visual and Performing Arts Cooperative Worksite Experience 518888 Health Sciences Careers Cooperative Worksite Experience 528888 Business & Marketing Education Cooperative Worksite Experience
V600097	Worksite Learning Coordinator	No additional occupational experience required	See Codes Above