

## CAREER AND TECHNICAL EDUCATION CERTIFICATION

Endorsement Name	Endorsement name and VCODE	OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
Agriculture Education	8100 CTE Agriculture Education (V010000)	Degree and 2000 hours Occupational Experience other than teaching. Must also apply for the Residency Teacher certificate or apply to add the endorsement to your teacher certificate and take and pass the basic skills test and the content knowledge test and obtain the Residency Teacher certificate or the endorsement before the Initial CTE certificate can be issued.	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
			010308	Agroecology and Sustainable Agriculture
			010309	Viticulture and Enology
			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 & Greenhouses
			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
			011103	Horticultural Science
			011106	Range Science and Management
011201	Soil Science and Agronomy, General			
011202	Soil Chemistry and Physics			
030101	Natural Resources/Conservation, General			

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			030103	Environmental Studies
			030104	Environmental Science
			030198	Sustainable Design and Technology
			030201	Natural Resources Management & Policy
			030202	Sustainable Design and Technology - Agriculture & Natural Resources Application
			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

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CERTIFICATION NAME	CIP CODE	CIP NAME	OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
Agribusiness	8101 Agribusiness (V010101)	Experience with farming, ranch management, or other agriculture related business	010101	Agricultural Business and Management, General	
			010102	Agribusiness/Agricultural Business Operations	
			010103	Agricultural Economics	
			010104	Farm/Farm & Ranch Management	
			010106	Agricultural Business Technology	
Agricultural Mechanics	8102 Agricultural Mechanics (V010201)	Experience with repair and maintenance of farm equipment or other agriculture related equipment	010201	Agricultural Mechanization, General	
			010204	Agriculture Power Machinery Operations	
			010205	Agricultural Mechanics & Equipment/Machine Technology	
Agricultural Production	8103 Agricultural Production (V010300)	Experience with management of agriculture animal/livestock, dairy, ranch production or other agriculture related business	010301	Agricultural Production Operations, General	
			010302	Animal/Livestock Husbandry & Production	
			010306	Dairy Husbandry & Production	
			010906	Livestock Management	
Aquaculture	8104 Aquaculture (V010303)	Experience with fresh water and salt water fish farming, or other agriculture related aquaculture	010303	Aquaculture	
			030301	Fishing & Fisheries Sciences & Management	
			261302	Marine Biology and Biological Oceanography	
Horticulture	8105 Horticulture (V010601)	Experience with greenhouse operations, landscaping, grounds keeper, plant nursery, turf management, or other agriculture related horticulture business	010601	Applied Horticulture/Horticulture Operations, General	
			010602	Plant Systems Operation(s) & Management in Horticulture & Greenhouse	
			010604	Greenhouse Operations & Management	
			010605	Landscaping & Grounds Keeping	
			010606	Plant Nursery Operations & Management	
			010607	Turf & Turf Grass Management	
			011103	Horticultural Science	
			030508	Urban Forestry	
			030198	Sustainable Design and Technology	
Floriculture	8106 Floriculture	Experience with floral services from	010603	Ornamental Horticulture	

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	(V010603)	supply to delivery or other agriculture related floral business	010608	Floriculture/Floristry Operations & Management
Agriculture Food Science	8107 Agriculture Food Science (V011001)	Experience with converting raw agriculture produce into processed forms suitable for direct human consumption and the storage of such products.	011001	Food Science
Natural Resources	8108 Natural Resources (V030101)	Experience with 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	Natural Resources/Conservation, General
			030103	Environmental Studies
			030201	Natural Resources Management & Policy
			030204	Natural Resources Economics
			030205	Water, Wetlands and Marine Resources Management
			030206	Land Use Planning and Management/Development
			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
Chemical Technology	8109 Chemical Technology (V410301)	Experience in the Bio-Technology industry	260103	Biotechnology Body Systems
			261201	Agricultural Biotechnology
			261202	Health Science and Biotechnology
Veterinarian Assistant	8110 Veterinarian Assistant (V510808)	Experience as a Veterinarian or Veterinarian assistant	510808	Veterinarian Assistant
			010901	Animal Science General

CAREER AND TECHNICAL EDUCATION CERTIFICATION				
CERTIFICATION NAME		OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
Business Education	8300 CTE Business Education (V070000)	College program completion and BA Degree plus 2000 hours Occupational Experience other than teaching. Must also apply for the Residency Teacher certificate or apply to add the endorsement to your teacher certificate and take and pass the basic skills test and the content knowledge test and obtain the Residency Teacher certificate or the endorsement before the Initial CTE certificate can be issued.	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
			110701	Introduction to Computer Science
			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		

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			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
			520703	Small Business Administration/Management
			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

CAREER AND TECHNICAL EDUCATION CERTIFICATION				
CERTIFICATION NAME	OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME	
Marketing Education	8400 CTE Marketing Education (V080000)  College program completion and BA Degree plus 2000 hours Occupational Experience other than teaching. Must also apply for the Residency Teacher certificate or apply to add the endorsement to your teacher certificate and take and pass the basic skills test and the content knowledge test and obtain the Residency Teacher certificate or the endorsement before the Initial CTE certificate can be issued.	090903	Advertising	
		270305	Financial Math	
		310504	Sports Recreation, and Entertainment Marketing and Management	
		450601	Economics	
		520000	Introduction to Business	
		520208	Electronic Commerce	
		520211	Project Management	
		520501	Business Communications	
		520701	Entrepreneurship	
		520703	Small Business Administration/Management	
		520901	Hospitality Administration/Management	
		520904	Hotel/Motel Administration Management	
		520905	Restaurant/Food Service Management	
		521101	International Business and Commerce	

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			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

CAREER AND TECHNICAL EDUCATION CERTIFICATION				
CERTIFICATION NAME		OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
Business and Marketing Education	8500 CTE Business and Marketing Education (V078000)	College program and BA Degree plus 2000 Occupational Experience other than teaching. Must also apply for the Residency Teacher certificate or apply to add the endorsement to your teacher certificate and take and pass the basic skills test and the content knowledge test and obtain the Residency Teacher certificate or the endorsement before the Initial CTE certificate can be issued.	090701	TV/Radio Broadcast Journalism Technology
			090903	Advertising
			091001	Publishing
			100201	Photography and Video Foundations
			100290	Visual Communications Foundations Graphic
			100301	Communication Foundations Prepress/Desktop
			100303	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
			110701	Introduction to Computer Science
			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			

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			520211	Project Management
			520301	Accounting
			520302	Accounting Technology
			520401	Business Procedures and Administrative Support Services
			520486	Recordkeeping
			520501	Business Communications
			520701	Entrepreneurship
			520703	Small Business Administration/Management
			520801	Finance
			520803	Banking and Financial Services
			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

CAREER AND TECHNICAL EDUCATION CERTIFICATION				
CERTIFICATION NAME		OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
Publishing	8310 Publishing (V091001)	Experience with newspaper, magazine, or book publishing	091001	Publishing
Business Management	8311 Business Management (V520100)	Management level business experience	270305	Financial Math
			450601	Economics
			520000	Introduction to Business
			520201	Business Administration Management
			520204	Business Office Management
			520208	Electronic Commerce
			520211	Project Management
			520401	Business Procedures and Administrative Support Services
			520501	Business Communications
			520703	Small Business Administration/Management
			520801	Finance
			520905	Restaurant/Food Service Management
			521101	International Business and Commerce
			521400	Introduction to Marketing
			521401	Marketing Management
	521501	Real Estate		

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Accounting and Related Programs	8312 Accounting and Related Programs (V520300)	Experience as an accountant, bookkeeper, and work in accounting operations of a business	521999	Social Media Marketing
			270305	Financial Math
			279998	Business Math
			520301	Accounting
			520302	Accounting Technology
			520486	Recordkeeping
			520801	Finance
Legal Administrative Services	8313 Legal Administrative Services (V520403)	Experience as a lawyer, paralegal, law clerk, or legal secretary	220001	Business Law
			220301	Legal Administrative Assistant
			520501	Business Communications
Medical Administrative Services	8314 Medical Administrative Services (V520404)	Experience as a medical secretary, medical records clerk, medical insurance adjuster	510716	Medical Administrative/Executive Assistant and Medical Secretary
Banking Support Services	8316 Banking and Support Services (V520895)	Experience with support services in a bank, savings and loan or credit union (teller, loan officer, bank accounting department)	270305	Financial Math
			279998	Business Math
			520803	Banking and Financial Services
			520801	Finance
Computer Application & Related Programs	8317 Computer Applications and Related Programs (V521206)	Experience with computer software, word, spreadsheets, data bases, web page design, network management, computer repair or computer programming	100290	Visual Communications Foundations
			100304	Animation, Interactive Technology, Video Games and Special Effects
			110103	Fundamentals of Information Technology
			110201	Computer Programming
			110601	Digital Communication Tools
			110701	Introduction to Computer Science
			110699	Office User Specialist
			110801	Webpage/Digital/Multimedia and Information Resource Design
			110802	Data Modeling and Database Administration
			110803	Video Game Design/Digital Computer Animation for Game Design
			111006	Computer Support Specialist
			231101	Technical Communication
			430116	Cyber/Computer Forensics
			520401	Business Procedures and Administrative Support Services
			520501	Business Communications
Fashion Merchandising	8318 Fashion Merchandising (V080102)	Experience in retail or wholesale experience in the fashion industry	521902	Fashion Merchandising
Entrepreneurship	8319 Entrepreneurship (V080301)	Ownership and operation of self owned business	270305	Financial Math
			279998	Business Math
			450601	Economics
			520701	Entrepreneurship
			520703	Small Business Administration/Management
			520801	Finance
General Sales Operations	8320 General Sales Operations (V080706)	Experience with direct and indirect sales, ecommerce, or supervisory or	520208	Electronic Commerce

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		managerial retail sales	521801	Marketing Operations
			521804	Selling Skills and Sales Operations
Lodging Management	8325 Lodging Management (V520902)	Management level experience in a hotel or lodging facility	520901	Hospitality Administration/Management
			520904	Hotel/Motel Administration Management
Marketing Management	8326 Marketing Management (V521401)	Management level experience in retail or marketing operation; marketing director	090903	Advertising
			270305	Financial Math
			279998	Business Math
			310504	Sports Recreation, and Entertainment Marketing and Management
			450601	Economics
			520000	Introduction to Business
			520211	Project Management
			521400	Introduction to Marketing
			521401	Marketing Management
			521403	International Marketing
			520501	Business Communications
			520703	Small Business Administration/Management
			520801	Finance
			520905	Restaurant/Food Service Management
			521501	Real Estate
			521801	Marketing Operations
			521804	Selling Skills and Sales Operations
			521906	Tourism Promotion Operations
			521907	Vehicle Parts and Accessories Marketing Operations
			521999	Social Media Marketing

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CERTIFICATION NAME		OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
Family and Consumer Sciences Education	8600 CTE Family and Consumer Science (V200002)	College program completion and a BA Degree plus 2000 hours Occupational Experience other than <b>may be teaching in the FACSE field</b> . Must also apply for the Residency Teacher certificate or apply to add the endorsement to your teacher certificate and take and pass the basic skills test and the content knowledge test and obtain the Residency Teacher certificate or the endorsement before the Initial CTE certificate can be issued.	120500	Introduction to Foods and Related Culinary Arts
			120501	Baking and Pastry Arts/Baker/Pastry Chef
			120505	Food Preparation/Professional Cooking/Kitchen Assistant
			130101	Careers in Education
			190000	Work and Family Foundations
			190001	Personal Choices
			190002	Independent Living
			190003	Family Health
			190401	Consumer and Family Resources
			190403	Consumer Services
			190501	Nutrition and Wellness
			190504	Food Science, Dietetics and Nutrition
			190601	Housing, Interiors, and Furnishings
			190701	Human Development
			190703	Career, Community and Family Connections
			190704	Family Systems



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			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

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CERTIFICATION NAME		OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
Cosmetology	8630 Cosmetology (V120403)	Experience as a licensed cosmetologist	120401	Cosmetology
Food Production and Services	8640 Food Production and Services (V120505)	Experience in food work that includes the preparation and service of food	120500	Introduction to Foods and Related Culinary Arts
			120501	Baking and Pastry Arts/Baker/Pastry Chef
			120505	Food Preparation/Professional Cooking/Kitchen Assistant
			520905	Restaurant/Food Service Management
Translation and Interpretation	8641 Translation and Interpretation (V160103)	Experience as a translator from English to another language or from another language to English	160103	Translation and Interpretation
Consumer Services	8642 Consumer Services (V190403)	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
Food Science Dietetics and Nutrition	8643 Food Science Dietetics and Nutrician (V190504)	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
Housing, Interiors and Furnishings	8644 Housing, Interiors and Furnishings (V190601)	Experience in the Housing, Interiors, and Furnishings industry, focusing on	190601	Housing Interiors, and Furnishings

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		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		
Careers in Family and Community Services	8646 Family and Community Services (V190707)	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
Early Childhood Education and Support Services	8647 Early Childhood and Community Services (V190708)	Management level experience in a licensed child day care facility	190708	Child Care and Support Services Management
Textiles and Apparel	8648 Textiles and Apparel (V190901)	Experience in the textile and apparel industry in product design, production, merchandising customer service and business profitability	190601	Housing, Interiors and Furnishings
			190901	Textiles and Apparel
Educational Para Pro	8649 Educational Para Pro (V200206)	Experience as a teacher assistant	131501	Educational Para Pro
Careers in Education	8650 Careers in Education (V200212)	Bachelor's degree and experience as a teacher at the elementary, middle school or secondary level	130101	Careers in Education
Culinary Arts	8651 Culinary Arts (V200493)	Experience as a chef or working in culinary arts industry	120500	Introduction to Foods and Related Culinary Arts
			120501	Baking and Pastry Arts/Baker/Pastry Chef
			120503	Culinary Arts/Chefs Training
			120505	Food Production and Services
			520905	Restaurant/Food Service Management
Hospitality, Recreation and Tourism	8652 Hospitality, Recreation and Tourism (V310101)	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

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Personal Care Services	8612 Personal Care Services (V310510)	Experience working in the health and fitness industry in public private recreational facilities for community, hospital, or corporate fitness programs providing instruction, supervision and management of programs and program administration; Athletic Trainer Certified.	310507	Physical Fitness Technician
Sign Language Interpreter	8670 Sign Language Interpreter (V510205)	Experience as a sign language interpreter or signing assistant to hearing impaired	161603	Sign Language Interpretation/Interpreter

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CERTIFICATION NAME		OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
Health Informatics Career	8601 Health Infomatic Careers (V510700)	Experience in a hospital and /or medical group or clinic, HMOs, health insurance organizations, or health information technology working with healthcare data, health information management, and /or designing and utilization of health data systems (examples: Medical Records Management; Medical Biller/Coder; Database Analysts).	260103	Biomedical Body Systems
			510000	Introduction to Health Science Careers
			510700	Health Informatics Careers Strand
			510799	Medical Terminology
Health Support Services Careers	8602 Health Support Services (V510710)	Experience at a medical facility as a biomedical/clinical engineer and/or in central service, environmental health and safety, hospital maintenance or food service	510000	Introduction to Health Science Careers
			510710	Health Support Services Careers Strand Medical
			510799	Medical Terminology
Health Therapeutic Careers	8603 Health Therapeutic Careers (V510800)	Experience in any one (or a combination) of the following: Athletic Trainer Certified, Chiropractor, Dentist, Dental Hygienist, Registered Dental Assistant, Licensed Practical Nurse, Respiratory Care Practitioner, Physical or Occupational Therapist, Physical or Occupational Therapy Assistant, Pharmacist, Medical Physician, Physician's Assistant Certified,	190003	Family Health
			260103	Biomedical Body Systems
			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

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		Registered Nurse, Advanced Registered Nurse Practitioner.	511614	Nursing Assistant
			511199	Pre-Allied Health Program
			510805	Pharmacy Pre-Technician/Assistant
			510806	Physical Therapist Technician/Aide
Health Diagnostic Careers	8604 Health Diagnostic Careers (V510900)	Experience as a 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
			260103	Biomedical Body Systems
			510000	Introduction to Health Science Careers
			510799	Medical Terminology
			510900	Diagnostic Careers Strand
			510717	Medical Intervention
Biomedical Sciences	8608 Biomedical Sciences (V260102)	Experience in the biomedical fields. May use 6000 hours of teaching biology.	140501	Bioengineering and Biomedical Engineering
			190003	Family Health
			260102	Biomedical Sciences
			260103	Biomedical Body Systems
			260104	Biomedical Innovations
			510000	Introduction to Health Science Careers
			510717	Medical Intervention
			510799	Medical Terminology
			511199	Pre-Allied Health Program
			512210	Global Health
Health Science Biotechnology	8609 Health Science Biotechnology (V261202)	Experience in the biotechnical fields. May use 6000 hours of teaching biology.	140501	Bioengineering and Biomedical Engineering
			190003	Family Health
			260103	Biomedical Body Systems
			261202	Health Science Biotechnology
			510000	Introduction to Health Science Careers
			511199	Pre-Allied Health Program
			512210	Global Health
Dental Assistant	8605 Dental Assistant (V510601)	Experience in one of the following: Dentist, Dental Hygienist, Registered Dental Assistant	510601	Dental Assistant
Sports Medicine	8606 Sports Medicine (V510709)	Experience in one of the following: Athletic Trainer Certified, Chiropractor, Physical or Occupational Therapist, Physical or Occupational Therapy Assistant	190003	Family Health
			260103	Biomedical Body Systems
			310507	Personal Fitness Technician
			510000	Introduction to Health Science Careers
			510799	Medical Terminology
			510806	Physical Therapy Technician/Aide
			510913	Sports Medicine
			511199	Pre-Allied Health
Nursing Assistant	8607 Nursing Assistant (V511614)	Experience in one of the following: Registered Nurse, Registered Nurse Practitioner	190003	Family Health
			260103	Biomedical Body Systems
			510000	Introduction to Health Science Careers

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			510799	Medical Terminology
			511614	Nursing Assistant
			511199	Pre-Allied Health Program
Global Health	8611 Global Health (V512210)	Experience in one of the following: Biotechnical Fields, Biomedical fields, or Public Health	260102	Biomedical Sciences
			261202	Health Science Biotechnology
			512210	Global Health

CERTIFICATION NAME		OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
Technology Education	8700 CTE Technology Education (V210100)	College program completion and a BA Degree plus 2000 hours Occupational Experience other than teaching. Must also apply for the Residency Teacher certificate or apply to add the endorsement to your teacher certificate and take and pass the basic skills test and the content knowledge test and obtain the Residency Teacher certificate or the endorsement before the Initial CTE certificate can be issued.	030198	Sustainable Design and Technology
			100201	Photography and Video Foundations
			100290	Visual Communications Foundations
			100301	Graphic Communications Foundations
			110201	Computer Programming
			110701	Introduction to Computer Science
			140102	Pre-Engineering Technologies
			140501	Bioengineering and Biomedical 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
			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/CADD
			151305	Electrical/Electronics Drafting CAD/CADD
			151306	Mechanical Drafting and CAD/CADD
			151601	Nanotechnology
			210198	Technology Foundations
			400891	Principles of Technology Applied
			401099	Material Science Technology Applied
			430100	Public Safety and Security Foundations
			460100	Architecture and Construction Foundations
			469998	Pre-Apprenticeship Skills for the Trades
			470000	Manufacturing Foundations
			470100	Energy and Power Foundations
			470600	Automotive Foundations
470601	Transportation, Distribution and Logistics Foundation			
470606	Power Equipment Small Engine Technology/Technician			

## CAREER AND TECHNICAL EDUCATION CERTIFICATION

			480000	Precision Production Trades Foundations
			480701	Woodworking Foundations
			480703	Cabinetmaking and Millwork/Mill Wright
			500499	Design and Commercial Art Foundations

CERTIFICATION NAME		OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
STEM Technology	8760 STEM (V141000)	Experience in one or more of the following: Science, Technology, Engineering, Mathematics *Experience may include teaching in any of the above for 6,000 hours. *Districts must ensure that teachers accessing the V141000 Certificate Code are prepared with the proper technical and safety preparation necessary to provide safe and competent instruction.	030198	Sustainable Design and Technology
			110201	Computer Programming
			110701	Introduction to Computer Science
			140102	Pre-Engineering Technologies
			140501	Bioengineering and Biomedical Engineering
			141001	Electronics, Engineering and Design
			141801	Introduction to Materials Engineering
			144201	Mechatronics and Industrial Animation
			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
			151201	Computer Engineering Technology
			151301	Drafting and Design Technology General
			151302	CAD/CADD Drafting and /or Design Technology
			151602	Nanotechnology
210198	Technology Foundations			
279991	Technical Mathematics for the Trades			
400891	Principles of Technology Applied			
401099	Material Science Technology Applied			
Communication Technologies	8701 Communications Technology (V100100)	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	090701	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 Graphic
			100301	Communications Foundations Prepress/Desktop
			100303	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

**CAREER AND TECHNICAL EDUCATION CERTIFICATION**

			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
			500510	Technical Theater/Theater Design and Technology
			500602	Cinematography and Cinema Production
Material Engineering	8702 Material Engineering (V141801)	Experience as a material engineer in a manufacturing plant	141801	Materials Engineering
			150505	Solar and Wind Energy Technology
			470100	Energy and Power Foundations
Engineering	8726 Engineering (V143501)	Any work experience in engineering	140102	Pre-Engineering Technologies
			140501	Bioengineering and Biomedical Engineering
			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
			151601	Nanotechnology
Manufacturing Technology	8703 Manufacturing Technology (V150100)	Experience in the manufacturing industry solving production problems	030198	Sustainable Design and Technology
			140102	Pre-Engineering Technologies
			140501	Bioengineering and Biomedical Engineering
			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
			151601	Nanotechnology
			210198	Technology Foundations
			470000	Manufacturing Foundations
			470495	Computer Integrated Manufacturing
JROTC	8725 JROTC (V280300)	Experience as a an officer in any branch of the services	280301	JROTC

## CAREER AND TECHNICAL EDUCATION CERTIFICATION

Criminal Protective Services	8704 Criminal Protective Services (V430100)	Experience in 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
Forensic Technology	8705 Forensic Technology (V430106)	Experience in a crime forensic lab, a mortuary, or other laboratory experience	430106	Forensic Science Technology
Fire Services	8706 Fire Service (V430203)	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
Construction Trades	8707 Construction Trades (V460200)	Experience in building construction and carpentry, woodworking, cabinetmaking and millwork	030198	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 Residential
			460201	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
Electrician	8708 Electrician (V460302)	Experience in electrical work including installation and maintenance or electrical systems	030198	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
Electrical and Electronic Equipment Repair	8710 Electrical and Electrical Equipment Repair (V470101)	Experience with repair and maintenance of electrical and electronic equipment	030198	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



## CAREER AND TECHNICAL EDUCATION CERTIFICATION

Computer Technology	8711 Computer Technology (V470110)	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
			110701	Introduction to Computer Science
			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
Refrigeration/Air-Conditioning/Heating	8712 Refridgeration/Air conditioning/Heating (V470201)	Experience with 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
Automotive Technology	8715 Automotive Technology (V470600)	Occupational experience in one or more of the following: Auto mechanic, diesel mechanic, or small engine repair and maintenance	030198	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
Auto Body Repair	8716 Auto Body Repair (V470603)	Experience in automotive body repair	470603	Auto Body/Collision and Repair Technology/Technician
			470688	Auto Detailer
Aircraft Technician	8717 Aircraft Technician (V470608)	Experience as an 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
Drafting	8718 Drafting (V480101)	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

**CAREER AND TECHNICAL EDUCATION CERTIFICATION**

Precision Metal Worker	8719 Precision Metal Worker (V480500)	Experience in 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
Aviation Occupations	8720 Aviation Occupations (V490100)	Experience as an aircraft pilot or as a part of a flight crew	490102	Airline/Commercial Pilot and Flight Crew
Water Transportation/Worker	8721 Water Transportation Worker (V490300)	Experience in 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
Commercial Design/Applied Art	8722 Commercial Design/Applied Art (V500400)	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
Stage Design Technician	8723 Stage Design/Technician (V500502)	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

CAREER AND TECHNICAL EDUCATION CERTIFICATION				
CERTIFICATION NAME		OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
Career Choices	8920 Career Choices (V600092)	Must hold a University route CTE Teacher Initial or Continuing Certificate and Worksite Learning Coordinator	320107	Career Choices
Worksite Learning Coordinator	8922 Worksite Learning (V600097)	Possess a valid initial or continuing CTE Teacher Certificate and demonstrate all competencies related to coordination techniques as verified by a professional educator standards board approved program (WAC 181-77-068); Completion of a WBL Coordination Techniques course	018888	Agriculture Cooperative Worksite Experience
			038888	Natural Resources and Conservation Cooperative Worksite Experience
			098888	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			

## CAREER AND TECHNICAL EDUCATION CERTIFICATION

			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