

## Programs of Study Apprenticeship Alignment

CLUSTER	PATHWAY	Apprenticeships and SOC Codes
<b>Agriculture, Food &amp; Natural Resources</b>	Agribusiness Systems	
	Animal Systems	
	Environmental Service Systems	<ul style="list-style-type: none"> <li>• Construction &amp; Maintenance Project Specialist (49-9042)</li> <li>• Drainage &amp; Wastewater Collection (51-8031)</li> <li>• Grounds Maintenance Specialist (37-3011)</li> <li>• Maintenance Mechanic (49-9041)</li> <li>• Potable Water Supply &amp; Service Worker (51-8031)</li> <li>• Tree Trimmer (37-3013)</li> <li>• Waste-Water Treatment Plant Operator (51-8031)</li> <li>• Water Pollution Control Plant Operator (51-8031)</li> <li>• Water/Wastewater Tech (51-8031)</li> </ul>
	Food Products and Processing Systems	<ul style="list-style-type: none"> <li>• Industrial Maintenance Mechanic (49-9041)</li> <li>• Industrial Refrigeration Mechanic (49-9021)</li> <li>• Cook (35-2014)</li> <li>• Meatcutter (51-3021)</li> </ul>
	Natural Resources Systems	<ul style="list-style-type: none"> <li>• Drainage &amp; Wastewater Collection (51-8031)</li> <li>• Landscape Technician (37-3011)</li> <li>• Potable Water Supply &amp; Service Worker (51-8031)</li> <li>• Waste-Water Treatment Plant Operator (51-8031)</li> <li>• Water Pollution Control Plant Operator (51-8031)</li> <li>• Water/Wastewater Tech (51-8031)</li> </ul>
	Plant Systems	<ul style="list-style-type: none"> <li>• Grounds Maintenance Specialist (37-3011)</li> <li>• Landscape Technician (37-3011)</li> <li>• Tree Trimmer (37-3013)</li> </ul>
<b>Architecture &amp; Construction</b>	Power, Structural & Technical Systems	<ul style="list-style-type: none"> <li>• Combustion Turbine Specialist (51-8013)</li> <li>• Control Systems Technician (17-3023)</li> <li>• Energy Control Dispatcher (43-5032)</li> <li>• Hydro Plant Operator (51-8013)</li> <li>• Lineman (49-9051)</li> <li>• Meter Technician (49-9012; 47-2111)</li> <li>• Stationary Engineer (51-8021)</li> <li>• Power Plant Operator (51-8013)</li> <li>• Sub Station Operators (51-8012)</li> <li>• Substation (47-2111; 49-2095)</li> <li>• Substation Engineer (51-8012; 49-2095)</li> <li>• Utility (47-2111; 47-3013; 49-2095)</li> <li>• Water Pipe Worker (47-2151)</li> <li>• Wireman (47-2111; 49-2095)</li> </ul>
	Construction	<ul style="list-style-type: none"> <li>• Acoustical Applicator (47-2081)</li> <li>• Asbestos Worker(47-2061)</li> <li>• Boilermaker (47-2011)</li> <li>• Brick Layer/Mason(47-2021; 47-3011)</li> <li>• Carpenter (47-2031)</li> <li>• Carpet (47-2041)</li> <li>• Cement Mason (47-2051)</li> <li>• Construction Craft Laborer (47-2111; 47-2073)</li> <li>• Dock and Wharf Builder (47-2031)</li> <li>• Drywall Systems Installer (47-2081; 47-2082)</li> </ul>

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		<ul style="list-style-type: none"> <li>• Electrician (47-2111)</li> <li>• Electronic Systems Technician (49-2022)</li> <li>• Energy (43-5032; 49-2098; 49-2022)</li> <li>• Environmental Systems Control Worker (47-2041)</li> <li>• Firestop/Containment Worker (47-2131)</li> <li>• Glazier (47-2121)</li> <li>• Heating &amp; Air Conditioning Installer Servicer (47-2211)</li> <li>• Hoisting Engineer (53-7040)</li> <li>• Insulation Applicator (47-2131)</li> <li>• Laborer (47-2061)</li> <li>• Marble Setter (47-2022)</li> <li>• Neon Sign Installer (47-2111)</li> <li>• Painter (47-2061; 47-2141)</li> <li>• Piledriver (47-2031; 47-2072)</li> <li>• Pipefitter (47-2152)</li> <li>• Plaster (47-2161)</li> <li>• Plumber (47-2152)</li> <li>• Pointer/Cleaner/Caulker (47-2061)</li> <li>• Public Sector Code Inspector (Official) (47-4011)</li> <li>• Resilient Floorcovering Installer (47-2042)</li> <li>• Roofer (47-2181)</li> <li>• Scaffold Erector (47-2031)</li> <li>• Sheet Metal Worker (47-2211)</li> <li>• Sign Maker (47-4099)</li> <li>• Soft Floor Layer(47-2042)</li> <li>• Sprinkler Fitter (47-2152)</li> <li>• Steamfitter (47-2152)</li> <li>• Terrazzo Worker (47-3011; 47-2053)</li> <li>• Traffic Signal Technician (47-2111; 47-2141)</li> <li>• Neon Sign Tube Bender (47-2111)</li> </ul>
	Design/Pre-Construction	<ul style="list-style-type: none"> <li>• Electrical (17-3023)</li> <li>• Technical Engineer (17-1022)</li> <li>• Transportation Technician 2 (17-3022)</li> </ul>
	Maintenance/Operations	<ul style="list-style-type: none"> <li>• Burglar Alarm Tech (49-2098)</li> <li>• Maintenance Electrician (49-2097; 49-9012; 49-9051)</li> <li>• Electronic Systems Technician (49-2022)</li> <li>• Limited Energy (43-5032; 49-2098; 49-2022)</li> <li>• Environmental Systems Control Worker (49-9098)</li> <li>• Facilities Custodial (37-2011)</li> <li>• Hoisting Engineer (53-7040)</li> <li>• HVAC Service Technician (49-9021)</li> <li>• Maintenance Pipefitter/Welder (47-2152)</li> <li>• Maintenance Sheet Metal Worker/Welder (47-2211)</li> <li>• Millwright (49-9044)</li> <li>• Refrigeration Mechanic (49-2092; 49-9021)</li> <li>• Sealant Applicator (51-9199)</li> <li>• Sound &amp; Communication Technician (49-2022)</li> <li>• Stationary Engineer (51-8021)</li> <li>• Telecommunications Technician (49-2022)</li> <li>• Telephone Interconnect Technician (49-2022)</li> </ul>

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		<ul style="list-style-type: none"> <li>• Telephone Installer (49-9052)</li> </ul>
<b>Arts, A/V Technology &amp; Communications</b>	Audio/Video Technology & Film	
	Journalism and Broadcasting	
	Performing Arts	
	Printing Technology	<ul style="list-style-type: none"> <li>• Duplicating Equipment Operator (43-9071)</li> </ul>
	Telecommunications	
	Visual Arts	<ul style="list-style-type: none"> <li>• Graphics Arts Technician (27-1024)</li> </ul>
<b>Business, Management &amp; Administration</b>	Administrative & Information Support Management	<ul style="list-style-type: none"> <li>• Administrative Assistant (43-6011)</li> <li>• Administrative Clerk (43-9061)</li> <li>• Automotive Partsman (43-5081)</li> <li>• Customer Service Coordinator (43-4171)</li> <li>• Data Processor (43-9021)</li> <li>• Duplicating Equipment Operator (43-9071)</li> <li>• Energy Control Dispatcher (43-5032)</li> <li>• Secretary (Clerical) (43-6014)</li> <li>• System Dispatch (43-5032)</li> </ul>
	Business Analysis	
	Business Financial Management & Accounting	<ul style="list-style-type: none"> <li>• Accounts Payable Clerk (43-3031)</li> <li>• Auditor (43-3031)</li> <li>• Payroll Clerk (43-3051)</li> </ul>
	Human Resources	<ul style="list-style-type: none"> <li>• Industrial Relations Agent (13-1079)</li> <li>• Youth Development Practitioner (13-1071)</li> </ul>
	Management	
	Marketing	
<b>Education &amp; Training</b>	Administration and Administrative Support	<ul style="list-style-type: none"> <li>• Administrative Assistant (43-6011)</li> <li>• Administrative Clerk (43-9061)</li> <li>• Communication Technician (25-2041)</li> <li>• Data Processor (43-9021)</li> <li>• Education Paraprofessional (25-9041)</li> <li>• Food Service (35-2012)</li> <li>• Library Technician (25-4031)</li> <li>• Payroll Clerk (43-3051)</li> <li>• Professional Educational Secretary (43-6011)</li> <li>• School Secretary (43-6014)</li> <li>• Secretary (Clerical) (43-6014)</li> </ul>
	Professional Support Services	<ul style="list-style-type: none"> <li>• Educational Sign Language Interpreter I/II (27-3091)</li> <li>• School Health Technician (31-9099)</li> <li>• Teachers Asst for Blind &amp; Vision Impaired (25-2041)</li> </ul>
	Teaching/Training	<ul style="list-style-type: none"> <li>• Driver Education Instructor (in car) (25-3021)</li> <li>• Instructional Aide (25-9041)</li> <li>• Instructional Assistant (25-9099)</li> </ul>
<b>Finance</b>	Banking & Related Services	
	Business Financial Management	<ul style="list-style-type: none"> <li>• Auditor (13-2011)</li> </ul>
	Financial & Investment Planning	
	Insurance Services	
<b>Government and Public</b>	Foreign Service	
	Governance	

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<b>Administration</b>	National Security	
	Planning	<ul style="list-style-type: none"> <li>• State Planner (19-3051)</li> <li>• Assistant Planner (19-3051)</li> </ul>
	Public Management and Administration	<ul style="list-style-type: none"> <li>• State Planner (19-3051)</li> <li>• Assistant Planner (19-3051)</li> </ul>
	Regulation	
	Revenue and Taxation	<ul style="list-style-type: none"> <li>• Auditor (13-2011)</li> </ul>
<b>Health Science</b>	Biotechnology Research and Development	
	Diagnostic Services	<ul style="list-style-type: none"> <li>• Computed Tomography (29-2034)</li> <li>• Magnetic Resonance Imaging (24-2034)</li> </ul>
	Health Informatics	
	Support Services	<ul style="list-style-type: none"> <li>• Dispensing Optician (29-2081)</li> <li>• Food Service Manager (29-1031)</li> <li>• Health Unit Coordinator (31-9099)</li> <li>• School Health Technician (31-9099)</li> </ul>
	Therapeutic Services	<ul style="list-style-type: none"> <li>• Physical Therapist Aide (31-2022)</li> <li>• Physical Therapist Assistant (31-2021)</li> <li>• Restorative Aide (31-2022)</li> </ul>
<b>Hospitality &amp; Tourism</b>	Lodging	<ul style="list-style-type: none"> <li>• Customer Service Coordinator (43-4171)</li> </ul>
	Recreation, Amusements & Attractions	<ul style="list-style-type: none"> <li>• Customer Service Coordinator (43-4171)</li> </ul>
	Restaurants and Food/Beverage Services	<ul style="list-style-type: none"> <li>• Cook (35-2014)</li> <li>• Customer Service Coordinator (43-4171)</li> <li>• Food Service (35-2012)</li> <li>• Food Service Manager (29-1031)</li> </ul>
	Travel & Tourism	<ul style="list-style-type: none"> <li>• Customer Service Coordinator (43-4171)</li> </ul>
<b>Human Services</b>	Consumer Services	
	Counseling & Mental Health Services	
	Early Childhood Development & Services	<ul style="list-style-type: none"> <li>• Child Care Assistant (39-9011)</li> <li>• Child Care Site Coordinator (11-9031)</li> </ul>
	Family & Community Services	<ul style="list-style-type: none"> <li>• Youth Development Practitioner (13-1071)</li> </ul>
	Personal Care Services	<ul style="list-style-type: none"> <li>• Barber (39-5011)</li> <li>• Cosmetologist (39-5012)</li> <li>• Customer Service Coordinator (43-4171)</li> <li>• Esthetician (39-5094)</li> <li>• Manicurist (39-5092)</li> </ul>
<b>Information Technology</b>	Information Support and Services	<ul style="list-style-type: none"> <li>• School Computer Technician I/II/III (15-1041)</li> </ul>
	Interactive Media	
	Network Systems	<ul style="list-style-type: none"> <li>• School Computer Technician I/II/III (15-1041)</li> </ul>
	Programming and Software Development	
<b>Law, Public Safety, Corrections and Security</b>	Correction Services	<ul style="list-style-type: none"> <li>• Corrections Officer (33-3012)</li> </ul>
	Emergency and Fire Management Services	<ul style="list-style-type: none"> <li>• Fire Fighter (33-2011)</li> <li>• Fire Medic (33-2011)</li> <li>• Firefighter/Paramedic (33-2011)</li> </ul>
	Law Enforcement Services	<ul style="list-style-type: none"> <li>• Police Officer (33-3051)</li> </ul>
	Legal Services	<ul style="list-style-type: none"> <li>• Workers Comp Adjudicator 2 (23-1021)</li> </ul>

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	Security & Protective Services	
<b>Manufacturing</b>	Health, Safety and Environmental Assurance	
	Logistics & Inventory Control	
	Maintenance, Installation & Repair	<ul style="list-style-type: none"> <li>• Appliance Service Technician (49-2092)</li> <li>• Boilermaker (47-2011)</li> <li>• Carpenter (47-2031)</li> <li>• Cellular Manufacturing Mach (51-4041)</li> <li>• Composite Manufacturing (51-9199)</li> <li>• Dock and Wharf Builder (47-2031)</li> <li>• Electronic Mechanic (49-2094)</li> <li>• Facilities Custodial Technician (37-2011)</li> <li>• Gear Machinist (51-4081)</li> <li>• Industrial Controls Tech (51-2022)</li> <li>• Industrial Machinist (51-4041)</li> <li>• Industrial Maintenance Mechanic (47-2111;47-2152; 49-3031; 49-9041; 49-9044; 51-4041; 51-4121)</li> <li>• Industrial Maintenance Welder (51-4121)</li> <li>• Industrial Pipefitter (47-2152)</li> <li>• Industrial Pipefitter/Welder (Maintenance) (47-2152)</li> <li>• Industrial Refrigeration Technician (49-2092; 49-9021)</li> <li>• Industrial Sheet Metal Worker/Welder (Maint) (47-2211)</li> <li>• Industrial Welder Fabricator (51-4121; 47-2152; 47-2211)</li> <li>• Laborer (47-2061)</li> <li>• Maintenance Electrician (47-2111; 49-2097; 49-9012; 49-9051; 51-2022)</li> <li>• Maintenance Machinist (51-4041)</li> <li>• Maintenance Sign Painter (51-9199)</li> <li>• Maintenance Sign Painter (51-9199)</li> <li>• Millwright (49-9044)</li> <li>• Piledriver (47-2031; 47-2072)</li> <li>• Pipefitter (47-2152)</li> <li>• Scaffold Erector (47-2031)</li> <li>• Sheet Metal Worker (47-2211)</li> <li>• Sign &amp; Pictorial Painter (51-9199)</li> </ul>
	Manufacturing Production Process Development	<ul style="list-style-type: none"> <li>• Assembly Machinist (51-2031)</li> <li>• Electronics Technician (17-3023)</li> <li>• Engineer Technician (17-3027)</li> <li>• Estimator (17-2071)</li> <li>• Industrial Instrument Technician (17-3023)</li> <li>• Industrial Predictive/Preventive Mechanic (49-9041)</li> <li>• Jig and Fixture Tool Maker (51-4111)</li> <li>• Model Maker (51-7031)</li> <li>• Moldmaker (51-9041)</li> <li>• Saw &amp; Knife Maker (51-4041)</li> <li>• Soft Tooler (51-4061)</li> <li>• Technical Engineer (17-1022)</li> <li>• Tool and Cutter Grinder (51-4194)</li> <li>• Tool and Die Maker (51-4111)</li> </ul>
Production	<ul style="list-style-type: none"> <li>• Assembly Machinist (51-2031)</li> </ul>	

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		<ul style="list-style-type: none"> <li>• Boat Builder (47-2031)</li> <li>• Bridge Carpenter (47-2031)</li> <li>• Cellular Manufacturing Mach (51-4041)</li> <li>• Composite Manufacturing (51-9199)</li> <li>• Gear Machinist (51-4081)</li> <li>• Industrial Machinist (51-4041)</li> <li>• Industrial Welder (51-4121)</li> <li>• Machinist (51-4041)</li> <li>• Machinist Metal Fabricator (51-4121)</li> <li>• Marine Machinist (51-4041)</li> <li>• Mill &amp; Cabinet Maker (51-7011)</li> <li>• Millman (51-7011)</li> <li>• Pipefitter (47-2152)</li> <li>• Production Mill Cabinet (51-7011)</li> <li>• Sealant Applicator (51-9199)</li> <li>• Sheet Metal Worker (Manufacturing Only) Sheet Metal (4751-22114031)</li> </ul>
	Quality Assurance	<ul style="list-style-type: none"> <li>• Quality Control (17-3026)</li> <li>• Tooling Inspector (51-9061)</li> </ul>
<b>Marketing, Sales &amp; Service</b>	Buying and Merchandising	
	Distribution and Logistics	
	E-Marketing	
	Management and Entrepreneurship	
	Marketing Communications and Promotion	
	Marketing Information Management and Research	
	Professional Sales & Marketing	
<b>Science, Technology, Engineering &amp; Mathematics</b>	Engineering and Technology	<ul style="list-style-type: none"> <li>• Electronics Technician (17-3023)</li> <li>• Engineer Technician (17-3027)</li> <li>• Estimator (17-2071)</li> <li>• Industrial Instrument Technician (17-3023)</li> <li>• Quality Control (17-3026)</li> <li>• Technical Engineer (17-1022)</li> </ul>
	Science and Mathematics	
<b>Transportation, Distribution &amp; Logistics</b>	Facility and Mobile Equipment Maintenance	<ul style="list-style-type: none"> <li>• Aircraft Mechanic (51-2011; 51-4041)</li> <li>• Auto Machinist (49-3023)</li> <li>• Automotive Body Repair (49-3021)</li> <li>• Diesel Mechanic (49-3031; 49-3023)</li> <li>• Electrician (49-2097; 49-9012; 49-9051; 51-2022)</li> <li>• Facilities Maintenance Mechanic (49-9042)</li> <li>• Heavy Duty Equipment Mechanic(49-3031; 49-3042)</li> <li>• Machinist (51-4041)</li> <li>• Maintenance Machinist (51-4041)</li> <li>• Maintenance Repairer (49-9042)</li> <li>• Marine Machinist (51-4041)</li> <li>• Mobile Equipment Mechanic (49-3031)</li> <li>• NC Spar Mill Operator (51-4011)</li> <li>• Painter (47-2141)</li> </ul>

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		<ul style="list-style-type: none"> <li>• Pipefitter (47-2152)</li> <li>• School Bus Mechanic (49-3031)</li> <li>• Sheet Metal Worker (47-2211)</li> <li>• Shipwright (47-2031)</li> <li>• Tractor Mechanic (49-3031)</li> <li>• Trailer, Container and Van Repair Mechanic (49-3021)</li> <li>• Transmission Tech (49-3023)</li> <li>• Transportation Technician 2 (17-3022)</li> <li>• Brake and Air System Technician (49-3021)</li> <li>• Drive Train Systems Tech (49-3023)</li> <li>• Steering &amp; Suspension Tech (49-3023)</li> </ul>
	Health, Safety and Environmental Management	
	Logistics Planning and Management Services	
	Sales and Service	<ul style="list-style-type: none"> <li>• Auto Refinisher Technician (51-9122)</li> <li>• Auto Tech (49-3023)</li> <li>• Automotive Body (49-3021)</li> <li>• Automotive Mechanic (49-3023)</li> <li>• Automotive Partsman (43-5081)</li> <li>• Brake and Air System Technician (49-3021)</li> <li>• Drive Train Systems Tech (49-3023)</li> <li>• Glass Installer (49-3022)</li> <li>• Steering &amp; Suspension Tech (49-3023)</li> </ul>