



Careers in designing, planning, managing, building and maintaining the built environment.



<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Sample Career Specialties / Occupations</p>	<ul style="list-style-type: none"> + Architect Architectural and Civil Drafter Building Code Official + Civil Engineer (structural, geotechnical, transportation, etc.) Civil Engineering Technician ❑ Computer-Aided Drafter (CAD) Cost Estimator Drafter ❑ Electrical and Electronic Engineering Technician + Electrical Engineer (electronics, security, telecommunications) Environmental Designer Environmental Engineer (hydro engineering, acoustical, etc.) Environmental Engineering Technician + Fire Prevention and Protection Engineer + Industrial Engineer + Interior Designer + Landscape Architect Landscape Designer Materials Engineer Mechanical Drafter + Mechanical Engineer (HVAC, plumbing, fire protection, etc.) Modeler (traditional and computer) Preservationist Programmer + Regional and Urban Planner/Designer Renderer (traditional and computer) Specifications Writer ❑ Surveying and Mapping Technician ❖ Surveyor 	<ul style="list-style-type: none"> Boilermaker Carpenter ❖ Carpet Installer Concrete Finisher ❖ Construction Craft Laborer Construction Engineer Construction Foreman Construction Inspector Construction Manager Drywall Installer Education and Training Director/Coordinator ❑ Electrician Electronic Systems Technician Elevator Installer Equipment and Material Manager ❑ Estimator Explosives Worker Field Supervisor + General Contractor/Builder Glazier ❑ Heating, Ventilation, Air Conditioning and Refrigeration Mechanic ❖ Insulation Worker Iron/Metalworker (structural and reinforcing) Landscape/Groundskeeper Manufacturer's Representative Mason Millwright ❖ Painter ❖ Paperhanger 	<ul style="list-style-type: none"> Pipe Fitter ❖ Plasterer/Drywall Plumber Preservationist Project Inspector Project Manager ❖ Roofer Safety Director Sales and Marketing Manager Scheduler ❑ Security and Fire Alarm Systems Installer Service Contractor ❑ Sheetmetal Worker Specialty Contractor Specialty Trades Subcontractor Steamfitter Subcontractor Superintendent System Installer Terrazo Worker and Finisher ❖ Tile and Marble Setter 	<ul style="list-style-type: none"> Boilermaker Carpenter Carpet Installer Concrete Finisher Construction Engineer ❑ Construction Foreman Construction Inspector Construction Manager Cost Estimator Demolition Engineer Drywall Installer ❑ Elevator Installer Environmental Engineer Equipment and Material Manager Estimator Facilities Engineer Field Supervisor General Maintenance Contractor Glazier ❖ Hazardous Materials Remover Heating, Ventilation, Air Conditioning and Refrigeration Mechanic ❖ Highway Maintenance Worker Hydro Testing Technician Insulation Worker Iron/Metalworker (structural and reinforcing) ❖ Landscaper/Groundskeeper Maintenance Estimator Maintenance Planner/Scheduler ❑ Manufacturer's Representative ❑ Mason Millwright Operating Engineer Paperhanger Pipe Fitter Plumber Preservationist Project Inspector Project Manager Refractory Technician Reliability Engineer Remodeler Restoration Technician Safety Director Sales and Marketing Manager Scheduler Security and Fire Alarm System Installer Security Controls Manager Service Contractor Sheetmetal Worker Specialty Contractor Specialty Trades Subcontractor Steamfitter Subcontractor Superintendent System Installer Terrazo Worker and Finisher Thermal Control Technician Tile and Marble Setter Wastewater Maintenance Technician
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Pathways</p>	<p style="text-align: center;">Design/Pre-Construction</p>	<p style="text-align: center;">Construction</p>	<p style="text-align: center;">Maintenance/Operations</p>	
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Cluster K&S</p>	<p>Cluster Knowledge and Skills</p> <ul style="list-style-type: none"> • Academics • Communications • Employability and Career Development • Ethics and Legal Responsibilities • Information Technology Applications • Leadership and Teamwork • Problem Solving and Critical Thinking • Safety, Health, and Environment • Systems • Technical Skills 		<p>Education Needed for Career</p> <ul style="list-style-type: none"> ❖ High School – completed high school, high school with career and technology training, GED, on-the-job training, or apprenticeship ❑ Junior College – completed junior/community college, postsecondary technical, or career and technology training + Baccalaureate Degree – completed four-year degree or more 	