

Getting There

Junior College & Community College Programs	Aims Community College	Arapahoe Community College	Colorado Mountain College	Colorado Northwestern Community College	Community College of Aurora	Community College of Denver	Front Range Community College	Lamar Community College	Morgan Community College	Northeastern Junior College	Otero Junior College	Pikes Peak Community College	Pueblo Community College	Red Rocks Community College	Trinidad State Junior College
Architectural Drafting		C					C					C			
Architectural Engineering Technology							A					A			
Architecture												A			
Architecture Drafting		C										C			
Architecture Building Science							A								
Architecture Cad		C													
Architecture Cad Professional Upgrade												C			
Architecture Construction												A,C			
Architecture Contracts And Materials		C													
Architecture Design And Technology		A													
Building Apt Maintenance														A,C	
Business Administration		A, C	A	A	A	A	A, C	A, C	A	A	A	A, C	A, C	A, C	A
Computer Aided Drafting							A,C					A,C			
Computer Aided Drafting	A, C	C					A					A, C			
Construction Estimating		C													
Construction Site Management	A, C						A	A, C							
Construction Supervision		A							C						
Construction Technology							A, C	A, C				A, C		A, C	A, C
Construction Trades								A, C							
Electrical Constuction														A,C	
Engineering	A, C	A	A			A				A	A			A	A
Engineering Graphics						A, C						A		A, C	
Engineering/Applied Technologies		A, C			A		A, C					A, C		A	A, C
EPIC Heavy Equipment															A, C
Heating, Ventilation, Air Conditioning							A,C					A, C			
Heavy Equipment Technology															A,C
Industrial Engineering													A		
Industrial Maintenance Technology														A, C	
Interior Design		A, C					A					A	A, C		
Machine Technologies						A, C						A, C			
Management	A, C			A	A, C	A	A, C	A, C	A, C	A, C	C	A, C	A, C		A, C
Manufacturing Technology															A, C
Occupational Safety & Health															A, C
Office Support						A, C			C		A,C	A, C	A, C	A, C	A, C
Physics			A		A	A				A	A			A	
Residential Drafting		C												A, C	
Sustainable Building	C														
Welding	A, C		C			A	A, C	C	A, C			A, C	A, C	A, C	A, C

C = Certificate, A = Associate's Degree

Public University Programs	Adams State College	Colorado School of Mines	Colorado State University	Colorado State University - Pueblo	Fort Lewis College	Colorado Mesa University	Metropolitan State University of Denver	University of Colorado at Boulder	University of Colorado at Colorado Springs	University of Colorado Denver	University of Northern Colorado	Western State College
Architecture												
Architectural Engineering								B			G, C	
Business Administration	B, G, A		B, G, C	G	B	B, G, A, C	C	G	B, G, C	B, G	B	B
Civil Engineering		B, G	B, G	B			B	B, G		B, G		
Construction Management			B, G			B						
Electrical Engineering		B, G	B, G				B, C	B, G	B, G	B, G		
Engineering			B, G		B					B, G		
Environmental Design								B				
Industrial Engineering				B, G								
Interior Design			B									
Landscape Design & Contracting			B									
Mechanical Engineering		B, G	B, G			B	B	B, G	B, G	B, G		
Urban & Regional Planning										G		
Welding Technology						A, C						

C = Certificate, A = Associate's Degree, B = Bachelor's Degree, G = Graduate Degree



COLORADO
Department of
Labor and Employment
Office of Labor Market Information

Want more Education?

www.Collegeincolorado.org



CONSTRUCTION

A Day In the Life of...

Kevin Marion, Construction Superintendent
Cobb Mechanical, Colorado Springs, CO

Construction offers opportunities for hands-on work and the chance to build structures from the ground up. This industry is composed of workers who build residential, industrial, and commercial buildings; contractors who build highways, bridges, sewers and other infrastructure projects. It includes people who perform skilled activities such as carpentry, painting, plumbing and electrical work. If you enjoy working with your hands, collaborating on projects and seeing the fruits of your labor materialize; construction could be the career for you!

Start Exploring Construction Careers

Step 1: Identify your interests

Compare your interests, skills and work values with construction occupations using Labor Market Information's Career Explorer:

Visit www.coworkforce.com/lmiguateway

- Click on "Services for Individuals"
- Choose "Career Services"

This will take you to "Career Explorer" where you can match your skills to occupations.

Step 2: Explore the construction industry & careers

Learn about high-growth, in-demand careers and what they pay on the LMI Gateway website:

www.colmiguateway.com

For more information about construction careers:

<http://www.careeroverview.com/construction-careers.html>

Step 3: Find education, training & financial aid

Discover the best education or training institutions for your career goals and how to get money for school at <http://www.collegeincolorado.org>

Step 4: Find available job openings

www.connectingcolorado.com

Kevin began landscaping as a summer job while still in high school. He found that he liked working outside and enjoyed working with his hands to create a product others could see and admire. When he graduated he decided to find work in construction. He began working in plumbing and pipefitting, learning his trade through on-the-job training. This job taught Kevin some important lessons: all work needs to be carefully planned and clear communication is critical to success.

Kevin now works at Cobb Mechanical, a commercial heating, ventilation and air conditioning contractor. As a superintendent, Kevin is responsible for scheduling and supervising the work completed by his crew. He is currently working on a medical building project in Denver. Kevin expects that this job will take about 20 months to complete and that he will need about 100 workers. He began this job by reading the blueprints and planning his work. The real challenge in every job is meeting the project deadlines. He works around form setters, electricians and others, coordinating the efforts of his crew. He maintains daily logs of job site activity to insure communication and follow up. He corresponds with engineers and architects and work with building inspectors. He expects to spend one-half of his time on the job site and the other half in the office.

Looking back over his career, Kevin recommends that anyone interested in construction work take classes in blueprint reading, math, reading and writing because those skills are required for most construction jobs. When Kevin talks about his job, he becomes animated. He clearly likes his work. What does Kevin like best about construction? "Every job is such a learning experience. Each job is different and I really like that!"

A Day in the Life of...

TH Mack Sr. *Exec Director
AmeriBuild Company Denver, CO*

TH begins his day at 5am by reviewing schedules and making email and phone contacts. Next, he visits construction job sites and his company’s training center. There he looks for students that listen intently and who are engaged in their work. For the rest of his busy day, he attends business meetings, establishes his clientele and lines up new jobs, before closing his day with updates from project managers.

TH loves seeing the transformation in young men and women at his training center from somewhat confused and uncommitted individuals to empowered, dedicated contributors with a sense of pride and ownership in the building process.

TH has a bachelor’s degree in Finance and Business Law as well as a Construction Management Certificate. He credits finance for providing him many skills needed to be successful in his construction business. Other foundations include high school math, language arts courses that taught communication and vocational classes in carpentry. Gym and organized sports taught him the value of teamwork and collaboration, provided decision-making skills and how to learn from failure.



Who do you want to be tomorrow?

Occupation	Wage Range (Employment)	Minimum Education/Training	Suggested Programs of Study
Construction Laborers <i>Perform tasks involving physical labor. May operate hand and power tools of all types, clean and prepare sites, or assist other workers.</i>	\$23,616 - \$36,028 (18,860)	Moderate-term on-the-job training, Apprenticeships	Construction Trades, welding, scaffolding erecting, concrete finishing
Electricians <i>Install, maintain, and repair electrical wiring, equipment, and fixtures, working in accordance with relevant codes.</i>	\$30,850 - \$56,932 (13,880)	Apprenticeship, Certification	4-year apprenticeship program, with 144 hours of classroom study
Carpenters <i>Construct, erect, install, and repair structures and fixtures of wood, plywood, and wallboard, using hand and power tools.</i>	\$28,184 - \$49,597 (12,720)	Apprenticeship	Vocational-technical school training, Spanish
Construction & Building Inspectors <i>Inspect structures to determine structural soundness and compliance with specifications, building codes, and other regulations.</i>	\$45,860 - \$73,377 (1,820)	Moderate-term on-the-job training, Bachelor's Degree	Construction Management
Plumbers, Pipefitters, & Steamfitters <i>Assemble, install, and repair pipes, fittings, and fixtures of heating, water, and drainage systems, according to specifications and codes.</i>	\$31,380 - \$55,148 (8,160)	Moderate-term on-the-job training, Apprenticeships, Certification	4-5-year apprenticeship program
Operating Engineers & Other Construction Equipment Operators <i>Operate power construction equipment. May repair and maintain equipment in addition to other duties.</i>	\$32,973 - \$49,308 (8,440)	Moderate-term on-the-job training	On-the-job training
Cement Masons & Concrete Finishers <i>Smooth and finish surfaces of poured concrete. Align forms; patch voids; use saws to cut expansion joints.</i>	\$25,559 - \$42,241 (4,650)	Moderate-term on-the-job training, Certification	National Concrete Masonry Association Certification
Secretaries & Administrative Assistants, Except Executive <i>Perform routine clerical functions: draft correspondence, schedule appointments, organize and maintaine files, or provide information.</i>	\$24,236 - \$41,682 (59,570)	Moderate-term on-the-job training	On-the-job training
General & Operations Managers <i>Plan, direct, or coordinate the operations of companies. Formulate policies, manage daily operations, plan materials and human resources.</i>	\$54,799 - \$155,961 (38,580)	Bachelor's Degree	Construction science, construction management, building science, or civil engineering,
Drywall & Ceiling Tile Installers <i>Apply plasterboard, other wallboard or acoustical tiles to ceilings or interior walls of buildings.</i>	\$30,560 - \$46,146 (2,250)	Moderate-term on-the-job training	Informal training programs, aprenticeship programs
Heating, Air Conditioning, & Refrigeration Mechanics & Installers <i>Install, service, and repair heating and air conditioning systems in residences and commercial establishments.</i>	\$36,201 - \$56,318 (4,440)	Certification	HVAC Certification
Roofers <i>Cover roofs of structures with shingles, slate, asphalt, aluminum, wood, and related materials.</i>	\$27,240 - \$45,576 (2,390)	Moderate-term on-the-job training	Helping experienced roofers, 3-year apprenticeship program
Painters, Construction & Maintenance <i>Paint walls, equipment, buildings, bridges, and other structural surfaces. May remove old paint or mix colors.</i>	\$25,136 - \$40,165 (3,350)	Short-term on-the-job training	On-the-job training
Cost Estimators <i>Prepare cost estimates for construction projects to aid management in bidding on or determining price of product or service.</i>	\$38,937 - \$74,877 (5,290)	Bachelor's Degree	Finance and Accounting
Construction Managers <i>Plan, direct, coordinate, or budget construction projects.</i>	\$54,912 - \$107,928 (5,590)	Bachelor's Degree	construction science, construction management, building science, or civil engineering,

Source: Labor Market Information, LMI Gateway, and Occupational Employment Statistics, 2014



Apprenticeship

Registered Apprenticeships combine classroom instruction and on-the-job training supervised by journey-level craft persons or trade professionals. Join a Registered Apprenticeship Program and get paid while you go to school!

This industry has many apprenticeships. Here are some examples:

- Carpenter
- Cement Mason
- Construction Equipment Mechanic
- Glazier
- Boilermaker
- Dry Wall Applicator
- Painter
- Plumber
- Pipefitter/Sprinkler Fitter
- Insulation Worker
- Tile Setter
- Electrician
- Terazzo Worker

For additional information, go to:
<http://www.coworkforce.com/emp/ApprenticeMenu.htm>

www.doleta.gov/oa/apprentices.cfm