

# Architecture & Construction

## Industry Snapshot

If you've always loved to create and build things, careers in architecture, engineering, and construction will meet your creative desires. Career opportunities in architecture and engineering will grow 22.5% nationwide by 2018. Even the construction industry, which posted deep reductions in its workforce over the past several years, is expected to see brighter days ahead. According to the experts, jobs in construction are expected to increase nationwide by 2018. Also good news, these are well-paying jobs. It is anticipated there will be jobs in skilled trades such as electricians, plumbers, surveyors, and HVAC (heating, ventilation, and air conditioning). Many of these careers are growing increasingly "green," as workers master techniques, materials, and systems that define sustainability.




## Essential Industry Skills

For anyone planning to enter the job market in this field, a strong knowledge base in math and physics, along with troubleshooting and repair skills, are a must.

High school students should meet with an advisor/counselor to create an appropriate career action plan that may include high school classes in:

- Drafting
- Math
- Physics
- Construction
- Cabinet Making

Source: O\*NET & Western Maricopa Tech Prep Consortium

Occupation	Annual Entry-Level Wage Range*	Typical Training Required
Electricians 	\$28,390 - \$43,070	On-the-Job or Community College Training
Heating, Air Conditioning, Refrigeration Mechanics, & Installers	\$29,780 - \$44,840	On-the-Job or Community College Training
Plumbers, Pipefitters, & Steamfitters	\$27,770 - \$43,170	On-the-Job or Community College Training

\*Source: U.S. Bureau of Labor Statistics, 2010

# Architecture & Construction Programs at the Maricopa Community Colleges

Program	College/Skill Center	Program	College/Skill Center
<b>AIR CONDITIONING &amp; REFRIGERATION</b>			
Air Conditioning/Refrigeration/ Facilities	GateWay	Building Inspection	Estrella Mountain, Mesa
Residential & Light Commercial Air Conditioning	GateWay	Building Safety & Construction Technology	Phoenix
<b>APPRENTICESHIP RELATED INSTRUCTION</b>		Building Safety Technology	Scottsdale
Bricklaying & Tiletsetting	GateWay	Carpentry	GateWay
Carpentry	GateWay	Civil Engineering Technology Construction	Phoenix
Rough Carpentry Framer	Maricopa Skill Center	Construction Drafting CADD Level III	Mesa
Concrete Form Builder	GateWay	Construction Management	Mesa
Construction Management	GateWay, Phoenix	Construction Trades - Heavy Equipment Operations	Phoenix
Electricity	GateWay	Home Inspection	GateWay
Heat & Frost Insulation	GateWay	Electrician Worker	Mesa
Heavy Equipment Operations	GateWay	Plumbing Worker	Maricopa Skill Center
Ironworking	GateWay	Plan Review	Maricopa Skill Center
Mechanical Trades - Heating, Ventilating & Air Conditioning	GateWay	Pre-Contractor Licensing	Mesa
Mechanical Trades - Pipefitting	GateWay	Residential Drafting CADD Level II	Mesa
Mechanical Trades - Plumbing	GateWay	Solar Thermal Installer	Maricopa Skill Center
Mechanical Trades - Sheet Metal	GateWay	Solar Photovoltaic Installer	Maricopa Skill Center
Millwrighting	GateWay	Survey & Civil Drafting - CADD Level II	Mesa
Painting & Drywalling	GateWay	Surveying Technology	Phoenix
Pipefitter-Refrigeration	GateWay		
Plastering & Cement Masonry	GateWay		
Plumbing	GateWay		
Power Plant Technology	GateWay, Estrella Mountain		
Roofing	GateWay		
Sheet Metal	GateWay		
Steamfitting	GateWay		
<b>BUILDING &amp; CONSTRUCTION</b>			
Alternative Wall System Installer	Maricopa Skill Center		
Architectural CAD Technology	Phoenix		
Architectural CADD Level III	Mesa		
Architectural Detailing CADD Level III	Mesa		
Architectural Technology	Scottsdale		
Architecture	Mesa		



Source: <http://www.maricopa.edu/academic/ccta/curric/index.php>