



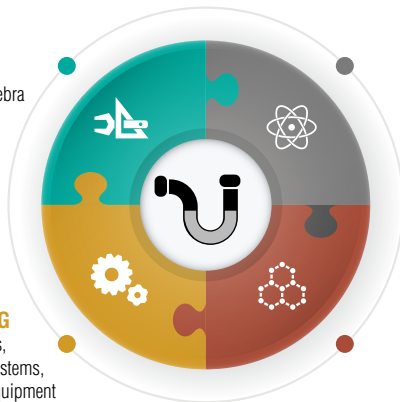
# Today's Plumbing and HVAC Careers

The required and portable STEM skills will surprise you.

A knowledgeable and successful workforce in the plumbing-heating-cooling industry is dependent on the skills taught through STEM.

## PLUMBING TECHNICIAN STEM SKILL PROFICIENCIES

**MATH**  
geometry, ratios, proportions, algebra



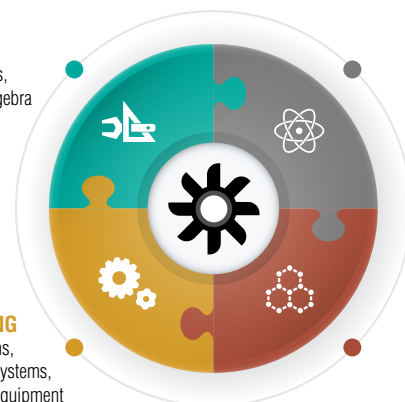
**SCIENCE**  
water conservation, energy conservation, biology, chemistry, public health, physics

**ENGINEERING**  
building systems, fluid handling systems, appliance and equipment design

**TECHNOLOGY**  
circuitry, control systems, instrumentation, meters

## HVAC TECHNICIAN STEM SKILL PROFICIENCIES

**MATH**  
geometry, ratios, proportions, algebra




**SCIENCE**  
ozone prevention, air quality, biology, chemistry, physics, heat transfer, energy conservation

**ENGINEERING**  
building systems, fluid handling systems, appliance and equipment design, duct design and fabrication


**TECHNOLOGY**  
circuitry, control systems, instrumentation, meters

## Plumbing and HVAC Careers: The Facts Will Surprise You!

 **High Salaries** – Average technician salaries are more than \$49,000 plus benefits.

 **High Demand** – More than 138,000 mechanics and installers will be needed by 2022.

 **Opportunities for Women** – Growth of women in the industry is on the rise.

 **Cutting-Edge Skill Sets** – Today's jobs are highly technical and require a variety of skills such as analyzing and problem solving.

 **Multiple Career Advancement Paths** – Career opportunities range from technicians to tech-savvy CAD and BIM operators to management.



**PLUMBING-HEATING-COOLING CONTRACTORS ASSOCIATION®**  
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Source: Bureau of Labor Statistics

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