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.

Source: Bureau of Labor Statistics

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