

# Plumbing, Diploma

## School of Technology

### Program Description

The Plumbing Diploma program provides students with an in-depth background of the plumbing industry. By combining theory and practical shop experiences, students will develop the skills needed for design, installation, maintenance, and troubleshooting plumbing systems for residential and commercial applications. The plumbing diploma is designed to prepare students for entry-level positions in the plumbing field. Students learn the tools used in the industry, the meaning of quality customer service, create a plumbing design to standards, and perform plumbing tasks. The skills to install and service plumbing hardware are stressed. Students will install and service water based heating and cooling systems, and residential and commercial water supply and waste systems. Successful completion of this program leads to the plumbing diploma.

### Career Opportunities

Plumbing program graduates can obtain jobs with the following titles: Sprinkler fitter, fitter, pipe fitter, steamfitter, plumbing apprentice, service plumber, residential plumber.

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Identify typical plumbing tools and power tools.
- Install fixtures and faucets, plastic pipe and fittings, drain, waste and vent systems.
- Install copper pipe and fittings, cast iron pipe and fittings.
- Install water heaters.
- Introduce fuel gas supply systems.
- Develop an understanding of the servicing of piping systems, sizing, fixtures and appliances.
- Sewage systems including backflow prevention, indirection and special waste systems.
- Understand water booster pumps, recycling systems and sump pump systems.
- Sizing water supply piping systems.
- Identify different types of venting systems.
- Develop an understanding of compressed air and other pressurized systems.
- Understand processes for water supply treatment.
- Identify methods for locating buried water and sewer lines.
- Study the installation of plumbing for mobile homes and mobile home parks.
- Understand the practices necessary for swimming pools and hot tub installation.
- Develop the skills to install and service hydronic and geothermal systems.
- Develop quality soft skills.
- Study the different related trades that apply to the plumber.

Sugg. Term	Seq #	Course ID	Course Title	Cr.	Prereq/Coreq(Co)	Options Available
Fall	1	PDV 101	First Year Seminar	1		
	2	PMB 101	Plumbing I	4		
	3	HAC 256	Geothermal and Solar Technology	3		
	4	PMB 121	Estimating for the Plumber	2		
	5	MTH 104	Introduction to Applied Mathematics	4	MTH 050 or Placement	
Spring	6	CMT 101	Related Trades	4		
	7	PMB 200	Plumbing Code	3		
	8	HAC 105	Blueprint Reading for HVAC Technicians	2		
	9	PMB 250	Advanced Plumbing Technologies	4		
	10	HAC 260	Hydronics	4		

Minimum Program Credits

31

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