



**RELATED INSTRUCTION OUTLINE OF THE
PLUMBING CURRICULUM**

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(4th Edition)

| PLUMBING LEVEL 1 | | | |
|-------------------------|---|--|----------------------|
| Module # | Module Name | Module Objectives | Perf. Profile |
| 1 | 02101-12 <i>Introduction to the Plumbing Profession</i> | Introduces trainees to the plumbing profession. Provides a history of plumbing and discusses the current technology, industries, and associations that make up the modern plumbing profession. Also reviews human relations and safety skills. | No |
| 2 | 02102-12 <i>Plumbing Safety</i> | Discusses the causes of accidents and their consequences and repercussions in terms of delays, increased expenses, injury, and loss of life. Reviews the types and proper use of personal protective equipment (PPE). Instructs trainees in the use of critical safety information conveyed in hazard communication (HazCom), safety signs, signals, lockout/tagout, and emergency response. Covers confined-space safety, and reviews safety issues related to hand and power tools | Yes |
| 3 | 02103-12 <i>Tools of the Plumbing Trade</i> | Instructs in the care and use of the different types of hand and power tools they will use on the job. Informs on how to select appropriate tools for different tasks and reviews tool maintenance and safety issues. | Yes |
| 4 | 02104-12 <i>Introduction to Plumbing Math</i> | Reviews basic math concepts and how they apply to on-the-job situations. Teaches trainees how to measure pipe using fitting tables and framing squares and how to calculate 45-degree offsets | Yes |
| 5 | 02105-12 <i>Introduction to Plumbing Drawings</i> | Introduces different types of plumbing drawings that will be encountered on the job and discuss how to interpret and apply them when laying out and installing plumbing systems. Discuss symbols used and reviews isometric, oblique, orthographic, as well as schematic drawings. Require trainees to render plumbing drawings and to recognize how code requirements apply to plumbing drawings. | Yes |
| 6 | 02106-12 <i>Plastic Pipe and Fittings</i> | Introduces the various types of plastic pipe and fittings used in plumbing applications, including ABS, PVC, CPVC, PE, PEX, and PB. Describes how to measure, cut, join, and support plastic piping according to manufacturer's instructions and applicable codes. Discusses pressure testing of plastic pipe once installed. | Yes |
| 7 | 02107-12 <i>Copper Tube and Fittings</i> | Discusses sizing, labeling, and applications of copper tube and fittings and reviews the types of valves that can be used on copper tube systems. Explains proper methods for cutting, joining, and installing copper tube. Also addresses insulation, pressure testing, seismic codes, and handling and storage requirements. | Yes |
| 8 | 02108-12 <i>Cast-Iron Pipe and Fittings</i> | Introduces hub-and-spigot and no-hub cast-iron pipe and fittings and their applications in DWV systems. Reviews material properties, storage and handling requirements, and fittings and valves. Covers joining methods, installation, and testing. | Yes |
| 9 | 02109-12 <i>Steel Pipe and Fittings</i> | Discusses threading, labeling, and sizing of steel pipe and reviews the differences between domestic and imported pipe. Covers the proper techniques for measuring, cutting, threading, joining, and hanging steel pipe. Also reviews corrugated stain-less steel tubing. | Yes |
| 10 | 02110-12 <i>Introduction to Plumbing Fixtures</i> | Discusses the proper applications of code-approved fixtures in plumbing installations. Reviews the different types of fixtures and the materials used in them. Also covers storage, handling, and code requirements. | Yes |
| 11 | 02111-12 <i>Introduction to Drain, Waste, and Vent (DWV) Systems</i> | Explains how DWV systems remove waste safely and effectively. Discusses how system components, such as pipe, drains, traps, and vents work. Reviews drain and vent sizing, grade, and waste treatment. Also discusses how building sewers and sewer drains connect the DWV system to the public sewer system. | Yes |
| 12 | 02112-12 <i>Introduction to Water Distribution Systems</i> | Identifies the major components of water distribution systems and describes their functions. Reviews water sources and treatment methods and covers supply and distribution for the different types of systems that trainees will install on the job. | Yes |

