

Course Description**BCV0508 | Helper, Plumber, Pipefitter | 12.00 credits**

The Helper, Plumber, Pipefitter course provides a comprehensive overview of career prospects and training pathways within the plumbing industry. Students gain foundational knowledge of industry practices, tool usage, and safety protocols, emphasizing organizational performance and regulatory compliance. The curriculum covers basic mathematics and science concepts essential for pipe trade applications. Participants learn to read and interpret construction documents and current pipe trade codes, sharpening their analytical skills for effective problem-solving. Through hands-on activities and theoretical instruction, students develop a solid understanding of the pipe trade industry, preparing them for entry-level positions and further specialization in this field.

Course Competencies

Competency 1: The student will demonstrate a comprehensive understanding of foundational plumbing industry practices, including safety protocols and tool usage by:

1. Identifying and utilizing essential plumbing tools and equipment safely to ensure compliance with industry standards and safety regulations
2. Explaining essential plumbing practices and procedures to establish a solid foundation for entry-level roles in the plumbing industry
3. Applying safety protocols and organizational performance guidelines enhances workplace efficiency and reduces risks

Competency 2: The student will gain the mathematical and scientific knowledge necessary for practical application in plumbing and pipefitting tasks by:

1. Applying basic mathematics to solve pipe trade-related problems, including measuring and calculating material requirements
2. Understanding scientific principles relevant to plumbing, such as fluid dynamics and pressure, to inform practical applications in the field
3. Analyzing mathematical and scientific concepts to enhance problem-solving skills in plumbing projects and tasks

Competency 3: The student will develop the ability to read and interpret construction documents and current pipe trade codes to enhance their analytical and problem-solving skills by:

1. Examining and interpreting construction documents, including blueprints and schematics, to understand project requirements and specifications
2. Evaluating current pipe trade codes and regulations to ensure compliance and proper installation practices
3. Developing analytical skills by interpreting construction documents to facilitate effective problem-solving in plumbing tasks

Learning Outcomes:

1. Communicate effectively using listening, speaking, reading, and writing skills
2. Use quantitative analytical skills to evaluate and process numerical data
3. Solve problems using critical and creative thinking and scientific reasoning