



Course Description

BCV0540 | Residential Plumber | 8.00 credits

The Residential Plumber course offers a comprehensive training in fundamental plumbing techniques. Students will learn essential skills such as pipe cutting and joining, while also gaining an understanding of plumbing codes and regulations. Through hands-on activities and theoretical instruction, participants will develop proficiency in reading and interpreting construction documents and specifications, as well as coordinating job layouts. Optional simulations will provide practical experience in installing rough plumbing both underground and above the first floor, as well as trim-out plumbing. Emphasis is placed on the importance of employability and entrepreneurship skills for success in the plumbing industry.

Course Competencies

Competency 1: The student will demonstrate proficiency in essential plumbing skills, such as pipe cutting and joining while adhering to plumbing codes and regulations by:

1. Performing pipe cutting and joining techniques accurately ensures secure and leak-free plumbing installations
2. Applying and understanding the relevant plumbing codes and regulations to maintain compliance in residential plumbing projects
3. Evaluating different types of piping materials and joining methods to select the most appropriate for specific applications

Competency 2: The student will develop the skills to read and interpret construction documents and specifications, facilitating effective job coordination by:

1. Analyzing construction documents and specifications to understand project requirements and expectations
2. Coordinating job layouts based on construction plans to ensure efficient plumbing installation and workflow
3. Utilizing theoretical knowledge to accurately inform practical applications by reading blueprints and schematics

Competency 3: The student will gain hands-on experience in installing rough plumbing systems, both underground and above the first floor, as well as trim-out plumbing by:

1. Engaging in optional simulations to practice installing rough plumbing systems to develop practical skills and confidence
2. Performing trim-out plumbing installations effectively to complete residential plumbing projects
3. Assessing and troubleshooting installation processes to enhance problem-solving skills and ensure quality workmanship

Competency 4: The student will cultivate employability and entrepreneurship skills critical for success in the plumbing industry by:

1. Identifying essential employability skills necessary for securing positions in the plumbing field to enhance job readiness
2. Exploring entrepreneurship concepts relevant to starting a plumbing business to prepare students for potential self-employment
3. Demonstrating effective communication and teamwork skills in collaborative plumbing projects to foster a professional work environment

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