

Course Description**BCV0562 | Commercial Plumber | 8.00 credits**

The Commercial Plumber course offers an engaging exploration into the installation and management of complex plumbing systems. This course focuses on the theoretical discussion and simulation of installing water heating and circulating systems, interceptors, separators, and storm drainage systems. Participants will delve into the intricacies of these installations, gaining practical insights through simulation exercises. Additionally, the course provides a thorough understanding of backflow cross-connection control principles, ensuring students comprehend the importance of maintaining clean water supplies and preventing contamination. This comprehensive program is designed for those looking to enhance their knowledge and skills in specialized plumbing techniques and water safety measures.

Course Competencies

Competency 1: The student will demonstrate proficiency in the installation and management of advanced plumbing systems, including water heating and circulating systems, interceptors, separators, and storm drainage systems by:

1. Engaging in simulated exercises to effectively practice the installation techniques of water heating and circulating systems
2. Analyzing the requirements and specifications for installing interceptors and separators to ensure compliance with industry standards
3. Troubleshooting installation challenges in storm drainage systems to develop problem-solving skills and maintain system efficiency

Competency 2: The student will gain a thorough understanding of backflow cross-connection control principles, emphasizing the importance of preventing contamination and maintaining clean water supplies by:

1. Identifying potential backflow hazards in plumbing systems to assess risks and implement appropriate control measures
2. Applying backflow prevention methods ensures compliance with commercial plumbing installations' health and safety regulations
3. Evaluating the effectiveness of cross-connection control devices to enhance water safety in various plumbing applications

Competency 3: The student will develop practical insights into specialized plumbing techniques through hands-on simulations and theoretical discussions by:

1. Participating in simulation exercises replicating real-world plumbing scenarios to enhance practical skills and confidence
2. Arguing theoretical concepts related to complex plumbing systems to reinforce practical knowledge and application
3. Collaborating with peers in simulation activities fosters teamwork and communication skills essential for the plumbing trade

Learning Outcomes:

1. Use quantitative analytical skills to evaluate and process numerical data
2. Solve problems using critical and creative thinking and scientific reasoning
3. Formulate strategies to locate, evaluate, and apply information