

Course Description**BCV0603 | Electrician Helper | 10.00 credits**

The Electrician Helper course offers a foundational understanding of the electrical industry, emphasizing the critical importance of health, safety, and environmental stewardship alongside regulatory compliance. Participants will gain practical experience with tools and accessories specific to electrical work, mastering basic Direct-Current (DC) circuit skills. Through applied mathematics, students will deepen their comprehension of basic electricity principles. The curriculum includes reading and interpreting electric codes, further developing mathematical skills for electrical applications, and enhancing understanding of electricity. Students will also cultivate analytical and troubleshooting skills, essential for navigating and solving electrical challenges effectively.

Course Competencies

Competency 1: The student will understand electrical industry fundamentals by:

1. Exploring the importance of health, safety, and environmental stewardship in the electrical industry to promote safe work practices
2. Understanding regulatory compliance requirements to ensure adherence to industry standards and legal guidelines
3. Identifying the various tools and accessories specific to electrical work and their appropriate applications in the field

Competency 2: The student will master basic electrical skills and principles by:

1. Mastering basic Direct-Current (DC) circuit skills through hands-on practice to build foundational electrical knowledge
2. Applying mathematical principles deepens comprehension of basic electricity concepts and enhances problem-solving abilities
3. Reading and interpreting electric codes ensuring compliance and safe practices in electrical installations

Competency 3: The student will develop analytical and troubleshooting skills by:

1. Cultivating analytical skills to effectively assess electrical systems and identify potential issues
2. Troubleshooting electrical challenges by applying learned principles and techniques to resolve problems in practical scenarios
3. Enhancing overall understanding of electricity through continuous practice and engagement with real-world applications

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