

# Electricity

**I460312/8727200 – 1200 Hours**  
**Architecture & Construction Career Cluster**



The purpose of this program is to prepare students for employment or advanced training in a variety of construction electrical industries.

This program focuses on broad, transferable skills, stresses the understanding of all aspects of the electricity industry, and demonstrates such elements of the industry as planning, management, finance, technical and production skills, underlying principles of technology, labor issues, community issues, and health, safety, and environmental issues.

The recommended sequence allows students to complete specified portions of a program for employment or to remain for advanced training. The program is delivered through an open-entry, open-exit, individualized instruction format.

| <b>OCP A: Electrician Helper – 300 Hours</b>  |
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| <ul style="list-style-type: none"><li>• Demonstrate the importance of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance.</li><li>• Identify, use and maintain the tools and accessories used in the electrical industry.</li><li>• Demonstrate an understanding of basic Direct-Current (DC) electrical-circuit skills.</li><li>• Use oral and written communication skills in creating, expressing and interpreting information and ideas.</li><li>• Demonstrate mathematics knowledge and skills.</li><li>• Demonstrate an understanding of basic electricity.</li><li>• Read and interpret basic electric codes.</li><li>• Apply mathematics knowledge and skills to electricity.</li><li>• Demonstrate further understanding of electricity.</li><li>• Solve problems using critical thinking skills, creativity and innovation.</li><li>• Demonstrate language arts knowledge and skills.</li><li>• Demonstrate science knowledge and skills.</li></ul> |
| <b>OCP B: Residential Electrician – 450 Hours</b>   |
| <ul style="list-style-type: none"><li>• Demonstrate proficiency in electrical math problems and skills.</li><li>• Use information technology tools.</li><li>• Describe the importance of professional ethics and legal responsibilities.</li><li>• Demonstrate personal money-management concepts, procedures, and strategies.</li><li>• Demonstrate Alternating-Current (AC) circuit skills.</li><li>• Explain the importance of employability and entrepreneurship skills.</li><li>• Describe the roles within teams, work units, departments, organizations, inter-organizational systems, and the larger environment.</li><li>• Demonstrate leadership and teamwork skills needed to accomplish team goals and objectives.</li><li>• Install residential wiring.</li><li>• Install residential wiring systems.</li></ul>  |
| <b>OCP C: Commercial Electrician – 450 Hours</b>  |
| <ul style="list-style-type: none"><li>• Demonstrate proficiency in commercial wiring.</li><li>• Demonstrate specialized electrical skills.</li></ul>  |

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