

# APPRENTICE – ELECTRICAL

## CERTIFICATE (C)

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DESCRIPTION: Alpena Community College offers Certificates of Completion for basic and advanced millwright apprenticeship training. The curriculum meets current industry standards for this skilled trade, and core, basic, and advanced courses allow previously trained workers to take only the courses needed to upgrade their skills without being committed to an entire program. College credits earned may be applied toward requirements for an associate degree at ACC.

### CORE REQUIREMENTS CREDITS: 7-9

|                   |                                      |
|-------------------|--------------------------------------|
| APP 106M          | INDUSTRIAL SAFETY (1/1)              |
| APP 100E          | ELECTRICAL STUDIES FOR TRADES (3/4)  |
| MTH 110 <i>or</i> | TECHNICAL MATH I (3/4) <i>or</i>     |
| MTH 115           | APPLIED ALGEBRA & TRIGONOMETRY (5/6) |

### BASIC REQUIREMENTS CREDITS: 22

|          |  |
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| APP 102E | RESIDENTIAL WIRING & BLUEPRINT RDG (3/4) |
| APP 103E | COMMERCIAL & INDUSTRIAL WIRING (3/4)     |
| APP 104E | AC/DC FUNDAMENTALS (3/4)                 |
| APP 107E | SPECIALTY WIRING (3/4)                   |
| APP 111E | ELECTRIC MOTOR CONTROL (3/4)             |
| APP 114E | PROGRAMMABLE CONTROLLERS (3/4)           |
| APP 115E | NATIONAL ELECTRIC CODE APPLICATION (4/4) |

### ADVANCED REQUIREMENTS CREDITS: 6

|          |  |
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| APP 122E | DIGITAL ELECTRONICS FOR ELECTRICIANS (3/4) |
| APP 123E | LINEAR ELECTRONICS FOR ELECTRICIANS (3/4)  |

**MINIMUM 29 CREDIT HOURS/37 CONTACT HOURS (BASIC)**

**MINIMUM 35 CREDIT HOURS/45 CONTACT HOURS (ADVANCED)**

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#### NOTE:

Must complete Core and Basic courses prior to Advanced courses.