

**APPRENTICE – ELECTRICAL
Certificate****Basic Minimum Credits: 28.5
Contact Hours: 36.5****Advanced Minimum Credits: 34.5
Contact Hours: 44.5**

INTRODUCTION: Alpena Community College offers Certificates of Completion for basic and advanced electrical 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 need 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 COURSES

COURSE	TITLE	CREDITS	CONTACT HOURS
APP 106M	Industrial Safety	0.5	0.5
APP 100E	Electrical Studies for Trades	3.0	4.0
MTH 110 or MTH 115	Technical Math or Applied Algebra & Trig	<u>3.0-5.0</u>	<u>4.0-6.0</u>
CORE COURSES CREDITS/CONTACT HOURS:		6.5-8.5	8.5-10.5

BASIC COURSES

COURSE	TITLE	CREDITS	CONTACT HOURS
APP 102E	Residential Wiring & Blueprint Reading	3.0	4.0
APP 103E	Commercial & Industrial Wiring	3.0	4.0
APP 104E	AC/DC Fundamentals	3.0	4.0
APP 107E	Specialty Wiring	3.0	4.0
APP 111E	Electric Motor Control	3.0	4.0
APP 114E	Programmable Controllers	3.0	4.0
APP 115E	National Electric Code Application	<u>4.0</u>	<u>4.0</u>
BASIC COURSES CREDITS/CONTACT HOURS:		22.0	28.0

ADVANCED COURSES

APP 122E	Digital Electronics for Electricians	3.0	4.0
APP 123 E	Linear Electronics for Electricians	<u>3.0</u>	<u>4.0</u>
ADVANCED COURSES CREDITS/CONTACT HOURS:		6.0	8.0

NOTES:

Must complete Core and Basic Courses prior to Advanced Courses.