

# ELECTRICAL MAINTENANCE TECHNICIAN

Associate in Applied Science (AAS) Degree

Minimum Credits: 60.5  
Contact Hours: 71.5

**INTRODUCTION:** This program meets industry standards for this skilled trade. The occupational specialty courses meet requirements for local electrical apprenticeship programs. Students are prepared to work in residential, commercial, and industrial environments. The program includes training in the fundamentals of electricity, electric motor controls, and programmable controllers, as well as digital electronics.

## GENERAL EDUCATION COURSES

COURSE	TITLE	CREDITS	CONTACT HOURS
ENG 111 or ENG 120	English or Applied Communications	3.0	3.0
ENG 112 or ENG 123	English or Technical Communications	3.0	3.0
PLS 221 or PLS 222 or HST 221 & HST 222	American Government Requirement	3.0-6.0	3.0-6.0
SPE 123	Public Communication	3.0	3.0
	General Electives	<u>8.0</u>	<u>8.0</u>
<b>GENERAL EDUCATION CREDITS/CONTACT HOURS:</b>		20.0-23.0	20.0-23.0

## BASIC CORE COURSES

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

## BASIC TECHNICAL COURSES

APP 102E	Residential Wiring & Blueprint Reading <sup>A</sup>	3.0	4.0
APP 103E	Commercial & Industrial Wiring	3.0	4.0
APP 104E	AC & DC Fundamentals <sup>A</sup>	3.0	4.0
APP 107E	Specialty Wiring <sup>A</sup>	3.0	4.0
APP 111E	Electric Motor Control <sup>A</sup>	3.0	4.0
APP 114E	Programmable Controllers <sup>A</sup>	3.0	4.0
APP 115E	National Electric Code Application <sup>A</sup>	4.0	4.0
APP 122E	Digital Electronics for Electricians <sup>A</sup>	3.0	4.0
APP 123E	Linear Electronics for Electricians <sup>A</sup>	3.0	4.0
CIS 120	Introduction to Microcomputers	3.0	4.0
	Technical or Business Elective	<u>3.0</u>	<u>3.0</u>
<b>BASIC TECHNICAL CREDITS/CONTACT HOURS:</b>		<u>34.0</u>	<u>43.0</u>
<b>TOTAL MINIMUM PROGRAM CREDITS/CONTACT HOURS:</b>		60.5	71.5

### NOTES:

<sup>A</sup> Included in occupational specialty – GPA of 2.0 or higher must be maintained in the area of occupational specialty.