

Electrical Maintenance Technology Diploma

Keokuk Campus

The Industrial Controls, Automation, and Robotics Technology pathway provides students with technical skills in maintaining and troubleshooting electrical and mechanical systems used in the industry. Mechanical and electrical theory are covered throughout the program, including how to troubleshoot and repair industrial systems. Instruction is delivered in a format designed for flexibility and customization based upon the desired career path of each individual student.

The [Basic Electrical Maintenance Certificate](#) is awarded upon successful completion of the Fall semester courses.

The [Electrical Maintenance Technology Diploma](#) is awarded upon successful completion of the Spring semester courses.

*Certificates and diploma can be earned one time.

Please view the [technical standards](#) for this course.

Instructor and Staff

Paul Volkl

Instructor - Industrial Controls, Automation and Robotics
Technology

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Keokuk Campus, and select courses online

Program Requirements

First Semester		Credit
ELE-116	Blueprint Reading	1
ELE-310	Industrial Electricity	2
ELT-295	AC/DC Fundamentals	2
IND-212	Safety Practices	2
MFG-155	Industrial Machine Programming	3
ELE-195	Motor Controls	3
MAT-702	Introduction to Math Applications	3
Semester Total.....		16

Second Semester		Credit
EGT-174	Fluid Power	2
ELT-132	Motor Drives	1
ELT-263	Programmable Logic Controllers I	2
EGT-175	Fluid Power Control	2
IND-252	Powertrain and Pump Operation	3
EGT-147	Hydraulic Power Systems and Troubleshooting	1
Take 1 of 2 courses:		
PSY-102	Human and Work Relations	3
SOC-114	Conflict Resolution in the Workplace	3
Semester Total.....		14
Program Total.....		30