

Electro-Mechanical Technology

Certificates

About the Program

This program prepares students to enter the industrial and manufacturing workplace with knowledge and skill levels in three areas: programmable controllers, process control instrumentation and mechanical maintenance. A certificate in programmable controllers involves programming and maintenance of various programmable controllers. The certificate in process control instrumentation trains the student to inspect, calibrate, troubleshoot and repair various temperature, pressure, flow and level measurement instruments. Students earning the mechanical maintenance certificate learn skills in power trains; drive components; mechanical alignment of couplings, pumps and motors; and troubleshooting and repair of industrial components.

College of DuPage Requirements

Students must earn the final 10 credits at College of DuPage.

Mechanical Maintenance Certificate

Total Required Credits: 33

Code: 4958

Certificate Requirements

Elect 1100	Electricity and Electronics Fundamentals	2
Elmec 1101	Survey of Automation	3
Elmec 1110	Motor Fundamentals.....	3
Elmec 1130	Industrial Electricity.....	3
Elmec 1150	National Electrical Code	3
Elmec 1420	Drive Components	2
Manuf 1104	Technical Mechanics	2
Manuf 1141	Hydraulics and Pneumatics.....	3
Manuf 1151	Machine Shop I.....	3
Manuf 1171	Introduction to Robotic Technology.....	3
Manuf 1190	Introduction to Programmable Logic Controllers.....	3
Weld 1100	Welding I	3

Process Control Instrumentation Certificate

Total Required Credits: 39

Code: 4959

Certificate Requirements

Elect 1100	Electricity and Electronics Fundamentals	2
Elect 1120	Electronic Documentation	2
Elect 2220	Electronic Instruments, Measurements and Control	3
Elect 2255	Industrial Controls	3
Elmec 1101	Survey of Automation	3
Elmec 1110	Motor Fundamentals.....	3
Elmec 1130	Industrial Electricity.....	3
Elmec 2510	Process and Automation Controls	3
Elmec 2520	Advanced Process and Automation Controls.....	3
Manuf 1141	Hydraulics and Pneumatics.....	3
Manuf 1171	Introduction to Robotic Technology.....	3
Manuf 1180	Quality Control	3
Manuf 1190	Introduction to Programmable Logic Controllers.....	3
Program Electives.....		2

Programmable Controllers Certificate

Total Required Credits: 35

Code: 4960

Certificate Requirements

Elect 1100	Electricity and Electronics Fundamentals	2
Elect 1120	Electronic Documentation	2
Elect 2255	Industrial Controls	3
Elmec 1101	Survey of Automation	3
Elmec 1110	Motor Fundamentals.....	3
Elmec 1130	Industrial Electricity.....	3
Elmec 1150	National Electrical Code	3
Elmec 2600	Motion Control: Servo and Stepper Motor Application and Control	2
Elmec 2410	Programmable Controller II (PLC II)	3
Manuf 1104	Technical Mechanics	2
Manuf 1171	Introduction to Robotic Technology.....	3
Manuf 1180	Quality Control	3
Manuf 1190	Introduction to Programmable Logic Controllers.....	3

Adviser

If you are considering this program as an area of study, consult with a faculty adviser in this field.

	Location	Phone
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