

# INDUSTRIAL TECHNOLOGY: MAINTENANCE AND AUTOMATION (CONT'D)

## INDUSTRIAL MAINTENANCE TECHNOLOGY CERTIFICATE

Program Code: E.IMT.CER

### Certificate

Graduation requirement — 37 semester hours

The Industrial Maintenance Technology Program prepares students to install and maintain the electromechanical, mechanical pneumatic, and hydraulic systems used in manufacturing and building facilities. The student acquires knowledge of electrical power and motors, control systems, pumps, compressors, pneumatics, hydraulics, and power transfer devices. Students can expect to find employment as installers, technicians, and service representatives in manufacturing, sales, and customer service.

### Program Notes

- MFX substitutions are accepted for MFT 110 and MFT 113.
  - MFT 110 = MFX 170 + MFX 171 + MFX 172 + MFX 173
  - MFT 113 = MFX 130 + MFX 131 + MFX 150 + MFX 151
- WLX substitutions are accepted for WLD 111.
  - WLD 111 = WLX 112 + WLX 113 + WLX 114 + WLX 115

### Suggested Full-Time Sequence

<i>FALL</i>	<i>SPRING</i>
<i>1st Semester</i>	<i>2nd Semester</i>
DRT 119	ELT 150
CTC 132	MFT 113
CTC 193	MFT 139
MFT 131	WLD 111
MAT 131	
 <i>SPRING</i>	 <i>SPRING</i>
<i>3rd Semester</i>	<i>4th Semester</i>
ELT 131	ELT 134
ELT 179	MFT 117
MFT 110	

Required Program Courses (33 hours)		Cr. Hrs.
CTC 132	Computer Basics .....	1
CTC 193	Windows .....	1
ELT 131	Residential Wiring .....	3
ELT 134	Motors, Controls, and Drives .....	3
ELT 150	Introduction to Electricity and Electronics. ....	3
ELT 179	Industrial Control Devices.....	3
MFT 110	Mechanical Assemblies.....	3
MFT 113	Introduction to Hydraulics and Pneumatics ...	3
MFT 117	Pumps, Compressors, and Vacuum Systems ...	3
MFT 131	Introduction to Manufacturing and Industrial Safety .....	3
WLD 111	Introduction to Welding .....	4
DRT 119	Blueprint Reading and Technical Drawing	
or MFT 139	Quality Assurance .....	3

### Required General Education Courses (4 hours)

MAT 131	Applied Mathematics .....	4
<i>Total Semester Credit Hours</i>		<i>37</i>