

Industrial Maintenance Certificate



Engineering Technologies Division

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Industrial Maintenance Certificate

The industrial maintenance technician not only troubleshoots and repairs advanced industrial equipment, but is responsible for the lay-out and installation. This individual will be versed in electrical, hydraulics, pneumatics, pipefitting, welding, machine repair and installation as well as motor control systems and PLC control systems.

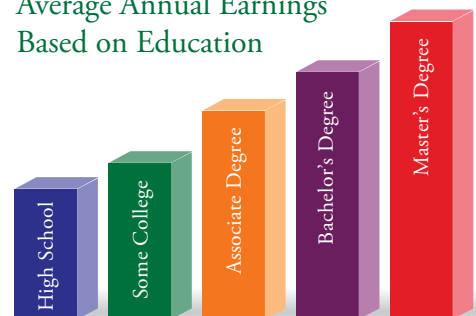
Coursework (100 level or higher) completed in this certificate directly applies toward the associate degree in maintenance technician/mechatronics.

Career Outlook

Many manufacturing companies across the country no longer employ segregated trades (electrician, millwright, machinist, etc.) Instead, they are moving to a multi-craft classification that will perform electrical, mechanics, machining, welding, etc. Therefore, positions for general maintenance and industrial maintenance are currently in great demand.

Education Pays

Average Annual Earnings
Based on Education



2011-2012

Based on data from the Bureau of Labor Statistics

Program Sequence

<i>First Semester</i>		<i>Credits</i>
+ IND120	Industrial Electricity I	3
MTH080	Review of Beginning Algebra	4
		7

<i>Second Semester</i>		<i>Credits</i>
IND103	Applied Geometry & Trigonometry	3
+ IND110*	Industrial Computing I	3
+ IND121	Industrial Electricity II	3
		9

<i>Third Semester</i>		<i>Credits</i>
+ IND132	Benchwork	2
+ IND133	Applied Welding Techniques	3
		5

<i>Fourth Semester</i>		<i>Credits</i>
+ IND232	Machine Repair	3
+ IND223	Motors & Motor Controls	3
		6

<i>Fifth Semester</i>		<i>Credits</i>
+ IND131	Industrial Pipefitting	3
+ IND134	Industrial Fluid Power I	3
		6

<i>Sixth Semester</i>		<i>Credits</i>
+ PLC200	Programmable Controller I	3
	General Studies Elective	3
		6

Total Program Credit Hours **39**

* Prior to taking IND110, students should have basic computer literacy in Windows and at least one Windows application.

+ Students must attain a minimum grade of "C" in all courses with a '+' to progress in the program and to graduate.

Course curriculum is subject to change. Please consult with an Academic Advisor for up-to-date information.



Industrial Maintenance Certificate

Department of Engineering Technology

PROGRAM NAME & LENGTH

Name of Program: Industrial Maintenance

Level of Program: Certificate

Program Length: 3 Semesters

RELATED OCCUPATIONS

U.S. Department of Labor's Standard Occupational Classification (SOC) code:

49-9041 Industrial Machinery Mechanics

Link(s) to the U.S. Department of Labor's O*Net Occupational Profiles:

<http://www.onetonline.org/link/summary/49-9041.00>

COST:

Total Tuition: \$5,168

Fees: \$425

Total Est. Costs for Books and Supplies: \$465

DEBT AT PROGRAM COMPLETION

Number of students completing the program between July 1, 2010 and June 30, 2011

Number of 2010-2011 Graduates: 1 Student(s)

For all Students completing program, the median cumulative debt for:

Federal Student Debt: Not Disclosed

PROGRAM COMPLETION IN NORMAL TIME

Normal Time in Months to Complete Program: 12 Months