

Industrial Electronics Maintenance



PROGRAM SHEET



MANUFACTURING

Possible Careers

- Industrial Electronic or Electrical Technician
- Industrial Maintenance Technician

Technical Diploma - 15 credits

Industrial Electronics Maintenance Technicians support the advanced manufacturing industry. They service the industrial machinery that manufactures consumer goods and equipment of many kinds. They work with journeymen electromechanical technicians and to perform the basic installation, maintenance and repair activities on industrial electronic and mechanical equipment. Industrial Electronic Maintenance Technicians also maintain pneumatic and hydraulic power systems and mechanical drives. They service and install the motors, motor control systems, and the programmable logic controllers that are used in manufacturing.

The program is designed so as to lend to flexible, self-paced learning lab delivery. The series of one credit courses have been grouped into a progressive set of certificates and a diploma that have been validated by the local manufacturing industry. The content is designed to have currency in the local manufacturing workplace and beyond.

we are
future makers

Industrial Electronics Maintenance

Program Outcomes

- 1) Demonstrate effective reading, writing, speaking and listening skills.
- 2) Demonstrate mathematical skills.
- 3) Apply scientific concepts.
- 4) Identify and solve problems, apply knowledge in a critical, creative and ethical manner.
- 5) Recognize the value of self and others in order to be a productive member of a diverse global society (for example, function effectively in a team environment).
- 6) Evaluate and use information technology effectively.
- 7) Demonstrate a basic understanding of applied science.
- 8) Exhibit professionalism.
- 9) Adhere to proper safety practices and procedures.
- 10) Disassembly/reassemble and build electromechanical hardware.
- 11) Perform preventative maintenance.
- 12) Install and program electronic and electromechanical systems.

Salary Information

Average wage was \$17.04 an hour for 2007 Wisconsin Technical College Electronics Maintenance graduates. Average annual salary was \$35,440.

Curriculum	Credits
First Semester	
31-660-311 Introduction to Electricity	1
32-660-301 Electronics Calculations 1	1
31-660-312 DC Circuits	1
	3
Second Semester	
31-660-351 DC Generators & Motors	1
32-660-302 Electronic Calculations 2	1
31-660-313 Introduction to Alternating Current	1
31-660-314 AC Circuits	1
	4
Third Semester	
31-660-321 Industrial Electronic Devices 1	1
31-660-341 Introduction to Power Systems & Circuit Protection.	1
10-103-101 Computer Literacy-Microsoft Windows.	1
31-660-322 Industrial Electronic Devices 2	1
31-660-352 AC Motors	1
31-660-371 Industrial Maintenance Practices.	1
31-660-353 AC Motor Controls.	1
31-660-361 Industrial Control Devices.	1
	15

Students must have a grade of "C-" or better in any course to progress in courses which require that course as a prerequisite and a grade of "C-" or better in all core courses to graduate. A cumulative G.P.A. of 2.0 is required for graduation.



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