

INDUSTRIAL MAINTENANCE MECHANIC



One-Year Technical Diploma 31-462-2

This career field offers plenty of opportunity to problem solve and work with your hands. You'll gain a high level of technical skills to prepare you for an entry-level position working with industrial machinery. Your training will include an introduction to electrical motors and safety, control devices and power systems. You'll also learn about blueprints, rigging and lifting, and computer-aided design. You'll get hands-on experience applying what you've learned in the machine shop.

Program Outcomes

Upon successful completion of this technical diploma, students will be able to:

- Demonstrate safe work procedures.
- Install industrial equipment and systems.
- Maintain industrial equipment and systems.
- Troubleshoot industrial equipment and systems.
- Repair industrial equipment and systems.
- Communicate technical information.

Graduates have found employment as:

- Industrial Maintenance Technician
- Industrial Machine Operator

Academic Plan

Semester 1		Credits
804-113	College Technical Mathematics 1A	3
620-902	Mechanics of Learning for Industrial Technologies	1
449-300	Safety for General Industry	1
620-903	Troubleshooting Integrated Manufacturing Systems 1	1

421-310	Print Reading for Manufacturing	1
421-110	Interpreting Schematics for Manufacturing	1
620-146	Basic Mechanics	1
620-147	Basic Principles of Preventive Maintenance	1
620-116	Fluid Power 1: Basic Pneumatics	1
620-904	Fluid Power 3: Intermediate Pneumatics	1
620-101	Fundamentals of DC Circuits 1	1
620-102	Fundamentals of DC Circuits 2	1
620-109	Relay Logic	1
620-124	Programmable Logic Controllers - PLCs	1
Credits		16

Semester 2

620-171 or 620-996 <i>and</i> 620-997	Human Relations in the Industrial Setting Internship or Work-Based Learning 1: Equipment Operation <i>and</i> Work-Based Learning 2: Preventive Maintenance	2
620-113	Fundamentals of AC Circuits 1	1
620-117	Fluid Power 2: Basic Hydraulics	1
620-906	Fluid Power 4: Intermediate Hydraulics	1
442-318	Introduction to Welding	1
442-336	Shielded Metal Arc Welding 1	1
620-170	Valves, Gaskets and Seals	1
620-174	Mechanical Power Transmission	1
620-172	Machine Setup & Installation	1
620-107	Variable Speed Drives 1	1

2 - Industrial Maintenance Mechanic

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620-106	Electric Motors 1	1
620-134	Sensors	1
620-166	Conveyor Systems	1
620-169	Milling Operations for Industrial Technicians	1
620-168	Lathe Operations for Industrial Technicians	1
Credits		16
Total Credits		32