

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

- 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
804-306 or 804-113	Shop Mathematics I or College Technical Mathematics 1A	2
620-902	Mechanics of Learning for Industrial Technologies	1
449-425	Safety	1
620-903	Troubleshooting Integrated Manufacturing Systems 1	1

620-173	Blueprint Reading for Machine Prints	1
620-146	Basic Mechanics	1
620-147	Basic Principles of Preventive Maintenance	1
620-116	Fluid Power 1: Basic Pneumatics	1
620-117	Fluid Power 2: Basic Hydraulics	1
620-101	Fundamentals of DC Circuits 1	1
620-102	Fundamentals of DC Circuits 2	1
620-109	Relay Logic	1
620-106	Electric Motors 1	1
801-311 or 801-136	Communication or English Composition 1	2

Credits 16

Semester 2

804-308 or 804-114	Shop Mathematics II or College Technical Mathematics 1B	2
620-171	Human Relations in the Industrial Setting Internship	2
620-113	Fundamentals of AC Circuits 1	1
620-124	Programmable Logic Controllers - PLCs	1
442-142	Introduction to Welding	1
442-143	Shielded Metal Arc Welding 1	1
620-166	Conveyor Systems 1	1
620-170	Valves, Gaskets and Seals	1
620-174	Mechanical Power Transmission	1
620-172	Machine Setup & Installation 1	1
620-107	Variable Speed Drives 1	1
620-904	Fluid Power 3: Intermediate Pneumatics	1

2 - Industrial Maintenance Mechanic
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620-134	Sensors	1
620-169	Milling Operations for Industrial Technicians	1
620-168	Lathe Operations for Industrial Technicians	1
Credits		17
Total Credits		33
