

MAINTENANCE MECHANIC/ MILLWRIGHT (MM)

MM-150 Industrial Mechanics I

8 Credits

Lecture: 8 hours per week

Offering: Fall Only, All Years

This course is an introduction to the principles of safety, hand and power tools, precision measuring, thread systems and fasteners, mechanical drive systems, equipment installation, and alignment.

Corequisites: MM-151L or WWTR-150L, MM-155

MM-151L Industrial Mechanics Lab I

5 Credits

Lab: 15 hours per week

Offering: Fall Only, All Years

This course applies the skills learned in MM-150, including safety practices, precision measuring, tool usage, mechanical drive systems, equipment installation, and alignment. Students will work on assigned tasks, projects, and performance tests.

Corequisites: MM-150, MM-155

MM-152 Industrial Mechanics II

7 Credits

Lecture: 7 hours per week

Offering: Spring Only, All Years

This course provides instruction in the technical skills required in the safe use of SMAW, GMAW and GTAW welding, industrial electricity, pipe fitting, coupling maintenance and alignment, bearings, packings, seals, and pumps.

Prerequisites: MM-150, MM-151L, MM-155

Corequisites: MM-152L or WWTR-152L, MM-156

MM-152L Industrial Mechanics Lab II

5 Credits

Lab: 15 hours per week

Offering: Spring Only, All Years

This course applies the skills learned in MM-152 including exercises in welding, coupling alignment and maintenance, bearing maintenance, pipe fitting, electric motor and control maintenance, and pump maintenance. Exercises in hydraulics components and troubleshooting areas are also included.

Prerequisites: MM-150, MM-151L

Corequisites: MM-152, MM-156

MM-153 Industrial Mechanics III

2 Credits

Lecture: 2 hours per week

Offering: Summer Only, All Years

This course covers advanced welding, advanced hydraulics, safe rigging practices, preventative maintenance, lubrication, and industrial mechanic skills.

Corequisites: MM-153L

MM-153L Industrial Mechanics Lab III

4 Credits

Lab: 12 hours per week

Offering: Summer Only, All Years

This course applies the theory concepts learned in MM-153 including welding concepts, hydraulics, rigging practices, preventative maintenance, assigned tasks, projects, and related performance tests.

Corequisites: MM-153

MM-155 Industrial Blueprints

2 Credits

Lecture: 2 hours per week

Offering: Fall Only, All Years

This course provides the necessary skills to understand industrial blueprints. Students will learn to read and understand title blocks, bills of materials, dimensions and notes, welding symbols, orthographic projection, auxiliary views, and section views.

Corequisites: MM-150, MM-151L

MM-156 Industrial Hydraulics

3 Credits

Lecture: 3 hours per week

Offering: Spring Only, All Years

This is a basic course in the fundamentals of fluid power. Students will learn how to effectively troubleshoot industrial hydraulic systems with emphasis on reservoirs, pumps, filters, directional flow and pressure control valves, cylinders, and motors.

Corequisites: MM-152, MM-152L