

Industrial Mechanical Technology

Diploma

INDUSTRIAL MECHANICAL TECHNOLOGY (MILLWRIGHT)

Students learn safety, measurements, troubleshooting, repair procedures, and the use of hand and power tools. The program also covers hydraulics, pneumatics, lubrication systems, heating systems, cooling systems, and welding. This knowledge is put to use in the repair of actual plant and pit equipment such as cranes, pumps, speed reducers, and other field equipment.



Helpful Background

Courses in industrial arts, math, science and mechanical drawing are very helpful. Hard-toed boots, hard hats (helmets), and safety glasses will be required.

Employment Opportunities

Job placement for Industrial Mechanical Technology students has traditionally been very high, as industry cannot afford to be shut down for too long. Qualified mechanics/millwrights find work repairing plant equipment and fabricating. A demand exists for mechanics/millwrights in a variety of manufacturing and processing facilities such as hardboard plants, paper companies, food processing plants, and mining companies. Graduates have also found employment with heavy equipment dealers, contractors, rail maintenance crews, and in specialty areas involving hydraulics, parts distribution, solar energy, logging, cooling, and heating.

www.mesabirange.edu

MESABI
Range College

Enrollment Office - Eveleth Campus
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EDUCATOR/EMPLOYER

PROGRAM PLANNING FORM

STUDENT _____

STUDENT ID _____

**INDUSTRIAL MECHANICAL TECHNOLOGY
2 YEAR DIPLOMA
(60 credits minimum) Eveleth**

Effective Semester/Year
Fall 2017

SEMESTER I		17 Credits	Cr	Lec/Lab	Grade
IMT 1231	Industrial Accident Prevention I		1	1/0	
IMT 1235	Basic Hydraulic Symbols and Components		2	2/0	
IMT 1237	Elements of Mechanics – Equipment Operations		2	1/1	
IMT 1238	Rigging		2	1/1	
IMT 1241	Basic Blueprint Reading & Sketching I		3	1/2	
IMT 1251	Basic Maintenance Welding & Cutting I		3	1/2	
IMT 1257	Measuring Tools & Layout		1	0/1	
GEDM 1165	Technical Math		2	2/0	
GECL 1155	College Seminar		1	1/0	

SEMESTER II		15 Credits	Cr	Lec/ Lab	Grade
IMT 1232	Industrial Accident Prevention II		1	1/0	
IMT 1242	Basic Blueprint Reading & Sketching II		2	1/1	
IMT 1245	Lubrication & Bearings		2	1/1	
IMT 1247	Hydraulic Basics		2	1/1	
IMT 1252	Basic Maintenance Welding & Cutting II		3	1/2	
IMT 1256	Drive Components & Troubleshooting		3	1/2	
CSCI 1400	Computer Essentials		2	2/0	

SEMESTER III		15 Credits	Cr	Lec/Lab	Grade
IMT 2225	Pumps		2	1/1	
IMT 2231	Safety & Equipment Maintenance I		3	0/3	
IMT 2251	Advanced Maintenance Welding & Cutting		3	1/2	
IMT 2261	Hydraulics & Schematics		3	1/2	
IMT 2265	Alignment & Introduction to Conveyor Systems		2	1/1	
GECL 2175	Job Search		1	0/1	
ITSF 1486	MSHA New Miner		1	1/0	

SEMESTER IV		13 Credits	Cr	Lec/Lab	Grade
IMT 2232	Safety & Equipment Maintenance II		4	0/4	
IMT 2242	Advanced Blueprint Reading		3	1/2	
IMT 2262	Pneumatics & Hydraulic Trouble-Shooting		3	1/2	
PAS 1235	Electrical for Industrial Mechanical Technology		2	1/1	
EMSV 1488	Heart Saver/First aid/AED & CPT		1	1/0	

Revised 11-23-15

3/2/12

Approval by _____ Date _____

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