INDUSTRIAL MAINTENANCE AND MECHANICS

DIPLOMA

Are you someone who likes challenges and can think under pressure?

This Riverland program is one of a kind in Minnesota. Machines are getting more costly to maintain and good maintenance workers play a major role in cost control. Students will receive training in the maintenance and repair of industrial equipment including operation of lathes, mills, drills and small tools used for machine repair. Our programs also focus on hydraulics, pneumatics, piping, sheet metal, electrical, bearings and seals, blueprint reading, preventative/predictive maintenance, safety and welding. Welding classes include gas, ARC, tig and wirefeed.

This program includes preparation for boiler exams. In the first year, you will prepare for a special engineer license exam. Upon successful completion of this exam, students start clocking hours with actual operation of an in-house boiler. In the second year, students will be qualified to apply for and take the Second Class high pressure boiler exam. After graduating, students will hold a Minnesota Steam Engineer Second Class License Grade A or B license.

Students will also receive training in the field of predictive/preventative maintenance which will include the use of thermography, laser alignment and vibration analysis. This equipment is used by companies to reduce or eliminate costly machine failures.

The Industrial Maintenance & Mechanics program is an ideal choice for students with good mechanical aptitude who take pride in their workmanship. Students can count on plenty of individual attention from instructors with extensive work experience.

NIMS (National Institute for Metalworking Skills) Accreditation www.nims-skills.org

Employment Outlook Riverland graduates are in demand and can choose from good jobs in many areas such as, maintenance mechanic or supervisor, millwright, metal fabricator, boiler operator, building maintenance, machinist, welder, tool and die or field service technician plus great advancement opportunities. You may want to consider further education to go into engineering.

Award: Diploma (DIP) 69 Credits Credits

Location: ♦ Albert Lea

Program Starts: Fall

Course Plan: Two Year

Articulation Agreements
Minnesota State University - Moorhead ♦ BS - Operations Management

Estimated Tuition 69 cr x $197.00 = *$13,593.00*
Books: $1400
Other Costs: $500

Faculty & Advisors
♦ Bob Bender / 507-379-3343
♦ Gary Peterson / 507-379-3358
♦ Richard Finley / 507-379-3363

RIVERLAND Campuses
Albert Lea | 2200 Riverland Dr. | Albert Lea, MN 56007 | 507-379-3300
Austin Campus | 1900 8th Avenue NW | Austin, MN 55912 | 507-433-0600
Owatonna Campus | 965 Alexander Drive SW | Owatonna, MN 55060 | 507-455-5880

Program Notes Requirements for Program Admission: Tool and Safety Kit Different options available, price varies per supplier.

Students entering this program must meet the following minimum program entry requirements:
Reading: An Accuplacer score of 52 is recommended.

Assessment Results and Prerequisites: Students admitted into Riverland Community College program may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH and ENGL courses have additional prerequisites.

Required Core Courses (61 Credits)		
IMMR1705	Safety and OSHA	1.00
IMMR1710	Cutting & Drilling Machine	1.00
IMMR1715	Small Tool Usage	2.00
IMMR1720	Low Pressure Boiler	4.00
IMMR1725	Arc Welding	3.00
IMMR1730	Gas Welding & Cutting	3.00
IMMR1740	Lathe Theory I	4.00
IMMR1745	Milling Machine Theory I	3.00
IMMR1750	Blueprint Reading	2.00
IMMR1760	Introduction to Basic Hydraulics	3.00
IMMR1770	Bearings and Seals	2.00
IMMR1775	Jigs and Fixtures	2.00
IMMR2720	Fundamentals of Electrical Maintenance	4.00
IMMR2725	High Pressure Boiler	3.00
IMMR2730	Machine Repair	3.00
IMMR2735	Preventative Maintenance	3.00
IMMR2740	Lathe II	3.00
IMMR2745	Milling Machines II	3.00
IMMR2750	Piping Systems	3.00
IMMR2760	Hydraulics II	3.00
IMMR2765	Gas, Metal, Arc Welding I	3.00
IMMR2770	Gas Tungsten Arc Welding	3.00
General Studies Courses (6 credits required)		
BUSO1620	Introduction to Computer	2.00
GSCM1510	Workplace Human Relations	2.00
GSMA1420	Technical Math I	2.00
Electives (General Studies 2 Credits)		
GSCL1250	Basic Business Concepts	2.00
GSCL1255	Fundamentals of Selling and Business Operations	3.00
GSCL1270	Employment Search Skills	1.00
GSCM1500	Written Technical Communications	2.00
HLTH1130	AHA CPR and First Aid Certification	1.00