WELDING TECHNOLOGY

CERTIFICATE

This certificate will provide students with knowledge of manufacturing processes and plant operations, along with an advanced skill set in welding technology and processes. Students will engage in topics of technical mathematics, introductory computer skills, print interpretation, manufacturing processes, quality control, maintenance, and safety. Also included in coursework, students will engage in topics of welding symbols, metallurgy, Plasma Arc Cutting and Air Carbon Arc Cutting (OxyFuel), Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW) and Flux Cord Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW).

The nationwide Manufacturing Skills Standards Council (MSSC) System, based upon industry-defined and federally-endorsed national standards, offers both entry-level and incumbent workers the opportunity to demonstrate that they have acquired the skills increasingly needed in the high-growth, technology-intensive jobs of the 21st century. The MSSC System awards certificates to individuals who pass any of its four Production modules: Safety; Quality Practices & Measurement; Manufacturing Processes & Production; and Maintenance Awareness and a full Certified Production Technician (CPT) Certification to those who pass all four. Students completing this Certificate will have gained the knowledge required to pass the MSSC full-certified Production Technician Certification.

Accuplacer Requirements

All courses require a reading cut score of 52

CMAE 1502 Technical Math requires arithmetic cut score of 45

Employment Outlook Riverland graduates from this program are eligible to immediately work in a variety of industries including production, fabrication, pipelines, maintenance or job shops around the region. You will find many appealing job opportunities, plus options to advance to supervisory positions after gaining work experience and developing skills.

Award: Certificate (CERT) 30 Credits Credits

Location: ♦ Albert Lea

Program Starts: Fall

Course Plan: Four Semesters

Estimated Tuition 30 cr x $197.00 = *$5,910.00*
Books: contact program advisor
Other Costs: contact program advisor

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

Program Notes Requirements for program admission: Safety kit. Consult instructor for more information.

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 (30 Credits)

CMAE1502	Technical Mathematics	3.00
CMAE1506	Introduction to Computers	2.00
CMAE1510	Print Reading	2.00
CMAE1514	Manufacturing Skill Standards Council (MSSC) Safety	2.00
CMAE1518	Manufacturing Processes	2.00
CMAE1522	Manufacturing Skill Standards Council (MSSC) Quality	2.00
CMAE1526	Maintenance Awareness	2.00
CMAE1560	Interpreting Symbols	2.00
CMAE1562	Oxyfuel Welding and Cutting Process	3.00
CMAE1564	Shielded Metal Arc Welding (SMAW)	3.00
CMAE1566	Gas Metal Arc Welding (SMAW)/Flux Cored Arc Welding (FCAW)	3.00
CMAE1568	Gas Tungsten Arc Welding (GTAW)	3.00
CMAE1570	Metallurgy and Mechanical Properties of Materials	1.00

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