

AUTOMATION TECHNOLOGIES

CERTIFICATE

This certificate will provide students with knowledge of manufacturing processes and plant operations, along with an advanced skill set in electronic and automotive systems. Students will engage in coursework topics of technical mathematics, introductory computer skills, print interpretation, manufacturing processes, quality control, maintenance and safety. Also included in coursework is an advanced skill set of AC/DC power, digital electronics, analog circuits, and motor controls.

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

Award: Certificate (CERT) 30 Credits Credits

Location: ♦ Albert Lea

Program Starts: Fall

Course Plan: Two 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

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
CMAE1550	DC Circuits	3.00
CMAE1552	AC Circuits	3.00
CMAE1554	Digital Electronics	3.00
CMAE1556	Analog Circuits	3.00
CMAE1558	Motor Control	3.00