



Production Technologies Certificate - 16 credits

(Fall 2021)

*****REMEMBER TO REGISTER EARLY*****

Program Description

This certificate will provide students with the training, education and skills to build a base knowledge of manufacturing processes and plant operations, generally for entry-level positions. Graduates can use the knowledge gained in this certificate to build upon a manufacturing career path leading to higher-level careers like Automation, Machining, and Welding. Students will engage in coursework topics of career success skills, technical mathematics, introductory computer skills, print interpretation, manufacturing processes, quality control, maintenance, and safety.

Required Courses

Number	Name	Credits	Term
CMAE 1502	Technical Math	3	
CMAE 1506	Introduction to Computers	2	
CMAE 1510	Print Reading	2	
CMAE 1514	Safety	2	
CMAE 1518	Manufacturing Processes and Production	2	
CMAE 1522	Quality Practices and Measurement	2	
CMAE 1526	Maintenance Awareness	2	
CMAE 1528	Career Success Skills	1	

Total Credits

16

Program Outcomes

- Identify and apply appropriate safety procedures
- Use technical mathematics to solve problems
- Demonstrate use of common computer software
- Analyze and apply specific manufacturing process procedures
- Identify and apply specific quality procedures
- Interpret symbols and blueprints accurately for a variety of projects
- Identify appropriate and inappropriate professional behavior

Pre-program Requirements

There are no specific program prerequisites for this certificate.

For more information about the MSSC Production Technologies Certificate see the program website [360 ETECH Program](https://360etech.org/app/custom/production_technologies) (https://360etech.org/app/custom/production_technologies)



MINNESOTA STATE

CIP Code: 15.0613
Minnesota State Program ID: 13-211-2019
LSC Major ID: 5501

Created: 4/19/19
AASC Approval: 5/7/14
Updated: 2/1/21

All courses in diploma and/or certificate programs are acceptable for credit toward Lake Superior College degree programs as indicated on individual program planners. This is not a contract; Lake Superior College reserves the right to change the planner as necessary. This document is available in alternative formats upon request, by contacting [Disability Services](#) or (218) 733-7650 or MRS/TTY (800) 627-3529.