

## Production Technologist Certificate - 8 credits

Program Area: Integrated Manufacturing (Fall 2019)

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

### Program Description

This certificate aligns with the Manufacturing Skill Standards Council's (MSSC) assessment and certification system for Safety, Manufacturing Processes and Production, Quality Practices and Measurement, and Maintenance Awareness. The core curriculum is based upon federally endorsed national standards for production workers. Students who complete these courses have the skills and knowledge to pass the credentialing exam and gain a nationally recognized credential.

### Required Courses

Number	Name	Credits	Term
CMAE 1514	Safety	2	
CMAE 1518	Manufacturing Processes and Production	2	
CMAE 1522	Quality Practices and Measurement	2	
CMAE 1526	Maintenance Awareness	2	

**Total Credits** **8**

*This 8-credit Certificate seamlessly transfers to the Machine Production Technologist Diploma (34 credits), the Advanced Machine Production Technologist AAS (60 credits), the Welding Technologist Diploma (32 credits) and the Welding AAS (60 credits).*

### Program Outcomes

- Explain performance of preventative maintenance
- Discuss the concepts of routine repair
- Discuss monitoring indicators to ensure correct operations
- Explain periodic or statistically based internal quality audit activities
- Explain continuous improvement
- Explain communication regarding quality problems
- Discuss how to determine resources available for the production process
- Identify set-up and verification of equipment for the production process
- Describe the process of setting team production goals
- Explain characteristics of working in a safe and productive manufacturing workplace
- Identify procedures related to performing emergency drills and participating on emergency teams
- Explain proper safe use of equipment

### Pre-program Requirements

There are no specific program prerequisites for this certificate.

For more information about the MSSC Production Technologist Certificate see the program website [Minnesota Advanced Manufacturing Partnership](#)



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