

Production Technologies

Certificate (C241)

Technical Requirements 16

Total Credits16

Program Description

Courses give an introduction to production technologies and provide initial information to start students in a manufacturing career pathway. Students engage in technical math, introductory computer skills, print interpretation, manufacturing processes, quality control, maintenance and safety.

Program Outcomes

By completing this program, students will achieve the following learning outcomes:

- Gain a general knowledge of production technology processes;
- Gain knowledge and understanding of interpreting production prints;
- Apply technical mathematics skills to production processes; and
- Demonstrate basic computer skills.

Career Opportunities

Trained in production technologies, a team assembler is part of a team responsible for assembling entire products or components of products. The assembler performs all tasks conducted by the team in the assembly process and rotates through all or most of them rather than being assigned a specific task on a permanent basis. As a team leader one may participate in making management decisions affecting the work. Career titles may include: assembly line machine operator, manufacturing assembler, team assembler, assembly technician, assembly operator.

Transfer Opportunities

This certificate is offered collaboratively with Northland Community and Technical College, Northwest Technical College, Minneapolis Community and Technical College, Pine Technical College, Riverland Community College, St. Cloud Technical and Community College, and St. Paul College through the 360 Center of Excellence in Manufacturing and Applied Engineering. Courses are transferable within all the listed colleges.

Program Course Requirements

CMAE 1502	Technical Mathematics	3 cr
CMAE 1506	Introduction to Computer Applications	2 cr
CMAE 1510	Print Reading	2 cr
CMAE 1514	MSSC Safety	2 cr
CMAE 1518	MSSC Manufacturing Processes and Production.....	2 cr
CMAE 1522	MSSC Quality Practice and Measurement.....	2 cr
CMAE 1526	MSSC Maintenance Awareness	2 cr
CMAE 1528	Career Success Skills OR	
CMAE 1529	Career Success Skills.....	1 cr

GRADUATION REQUIREMENT - 16 CREDITS

**Denotes Prerequisites*

Semester Course Requirements

Individual semester plans are determined between instructor/advisor and student to best meet the needs of the student.

Course Prerequisites

Some courses may require appropriate test scores or completion of basic math, basic English and/or reading courses with a "C" or better. CLC utilizes a multiple measure approach for placement which may include high school MCA, SAT, ACT scores in addition to high school GPAs. For insurance purposes, internships may require that students be 18 years old.

Graduation Requirements

In addition to the program requirements, students must meet the following conditions in order to graduate:

1. College Cumulative GPA Requirement: cumulative grade point average (GPA) of credits attempted and completed at CLC must be at least 2.0;
2. College Technical Core GPA Requirement: cumulative GPA of credits attempted and completed towards the technical core of the diploma or degree must be at least 2.0;
3. Residency Requirement: students must complete 25% of their credits at Central Lakes College.

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