Machine Operator CERTIFICATE

Right Skills Now for Manufacturing

Program Overview

The Right Skills Now (for Manufacturing) certificate is designed to provide training in the following areas: Job planning, benchwork, materials, manual milling, manual turning, blue print reading, CNC milling and CNC turning. This program was designed to address the current shortage of CNC operators. Graduates from this program are prepared to enter the industry as entry-level manual and CNC machine tool production operators with minimum skills.

The Right Skills Now (for Manufacturing) certificate will introduce manufacturing workplace safety, blueprint reading, general manufacturing processes, basic production manual machining skills, and introduction to operations.

The curriculum closely aligns with standards set forth by the National Institute of Metalworking Skills (NIMS). Students may choose to apply these credits towards a Machine Tool Diploma. The additional coursework will enhance the students' communication, mathematics, machining, CAD/CAM, and critical thinking skills.

Career Opportunities

Right Skills Now is a pathway of the National Association of Manufacturers (NAM)–Endorsed Manufacturing Skills Certification System, which includes nationally portable, industry-recognized certifications that are combined with for-credit education programs. These education pathways are directly aligned to career pathways in manufacturing, so students progressing through the programs earn college credit towards a degree, have an opportunity to earn a national certification with labor market value, and the hands-on technical experience to be successful on the job.

Program Outcomes

1. Students will have skills to operate computer- controlled machine tools; lathes, drills, and milling machines.
2. Graduates will acquire knowledge of workplace safety.
3. Graduates will have on the job learning opportunities through an internship.

Information is subject to change.
This Program Requirements Guide is not a contract.

Program Faculty

Terry Murray	terry.murray@saintpaul.edu
Dave Widmyer	david.widmyer@saintpaul.edu
Garret Byrne	garrett.byrne@saintpaul.edu
Scott Nordahl	scott.nordahl@saintpaul.edu
Allen Smith	allen.smith@saintpaul.edu

Estimated Cost for Student Supplies
The estimated cost for student supplies is $850.

Program Requirements

☑ Check off when completed

Certain classes must be taken concurrently and certain classes are prerequisites to other classes.

Course	Cr
☐ CNCT 1410 Introduction to Manufacturing Processes	4
☐ CNCT 1420 Engineering Drawing	4
☐ CNCT 1430 Materials Processes 1	4
☐ CNCT 1431 Materials Processes 2	4
☐ CNCT 2550 Industry Internship	4
Total Program Credits	**20**

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended for a full-time student.

First Semester

CNCT 1410 Introduction to Manufacturing Processes	4
CNCT 1420 Engineering Drawing	4
CNCT 1430 Materials Processes 1	4
CNCT 1431 Materials Processes 2	4
Total Semester Credits	**16**

Second Semester

CNCT 2550 Industry Internship*	4
Prerequisite CNCT 1410, 1420, 1430, and 1431 must be completed with a grade of "C" or better.	
Total Semester Credits	**4**

Total Program Credits 20

* Students are responsible for their own transportation to and from the internship site. Internship locations may not be accessible through public transportation.

RIGHT SKILLS NOW FOR MANUFACTURING

Minimum Program Entry Requirements
Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+

Assessment Results and Prerequisites: Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites

342C

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