

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. CMAE

COURSE NUMBER: 1518

NUMBER OF CREDITS: 2

Lecture: 2 Lab: 0 OJT 0

Course Title:

Manufacturing Process and Production

Catalog Description:

Manufacturing Process and Production emphasizes lean manufacturing principles, basic supply chain management, communication skills, and customer service. This course is designed to align with the National Skills assessment and certification system for Maintenance Awareness. The course curriculum is based upon federally-endorsed national standards for production workers

Prerequisites or Necessary Entry Skills/Knowledge:

None

FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

Goal 1: Communication: ____ by meeting the following competencies:

Goal 2: Critical Thinking: ____ by meeting the following competencies:

Goal 3: Natural Sciences: ____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: ____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: ____ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: ____ by meeting the following competencies:

Goal 7: Human Diversity: ____ by meeting the following competencies:

Goal 8: Global Perspective: ____ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: ____ by meeting the following competencies:

Goal 10: People and the Environment: ____ by meeting the following competencies:

Topics to be Covered

Identify customer needs

Production processes

Equipment set up

Job assignments

Material requirements

Process compliance

Customer requirements

Student Learning Outcomes

Demonstrate an understanding of manufacturing and production processes.

Identify customer needs to ensure that processes are in compliance with customer requirements.

Interpret job assignments to meet production goals.

Analyze workflow of team members & work groups to meet production goals.

Utilize lean and high-performance manufacturing principles to improve the manufacturing process.

Communicate material and product requirements

Is this course part of a transfer pathway: Yes No

*If yes, please list the competencies below

Revised Date: 1/2022