MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

DEPT. CMAE **COURSE NUMBER: 1526**

NUMBER OF CREDITS: 2 **Lecture: 2 Lab: 0 OJT 0**

Course Title:
Maintenance Awareness

Catalog Description:
Maintenance Awareness introduces the concepts of Total Productive Maintenance and preventative maintenance. 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
Preventative maintenance and Total Productive Maintenance.
Predictive maintenance.
Fundamentals of lubrication, electrical systems, hydraulics, pneumatics, and power transmission systems.
System monitors.
Importance of production schedules.
Maintenance issues in different systems

Student Learning Outcomes
Explain concepts of preventative maintenance practices.
Apply predictive and preventative maintenance program skills for the following systems: Electrical systems Pneumatic systems Hydraulic systems Machine automation systems Lubrication processes Mechanical systems
Discuss Total Productive Maintenance.
Analyze potential maintenance issues with production equipment.
Explain documentation within a maintenance plan.

Is this course part of a transfer pathway: Yes ☐ No ☒
***If yes, please list the competencies below**

Revised Date: 1/2022