

Northwest Technical College

CMAE 1526: Maintenance Awareness

A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 2

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites:

This course requires both of these prerequisite categories

1. Any one of these three

A score of 52 on test Accuplacer Reading Comprehension

A score of 234 on test Accuplacer NG Reading

A score of 99 on test Reading Assessment Waiver

And

2. A score of 99 on test Full Assessment Waiver

Corequisites: None

MnTC Goals: None

This course aligns with the Manufacturing Skill Standards Council's (MSSC) assessment and certification system for Maintenance Awareness. The curriculum is based upon federally endorsed national standards for production workers. The course introduces the concepts of predictive and Total Productive Maintenance (TPM) with the fundamental principles of lubrication, electricity, hydraulics, pneumatics, and power transmission systems.

Prerequisites: Appropriate placement scores for Reading.

B. COURSE EFFECTIVE DATES: 01/27/2015 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Critical Thinking

D. LEARNING OUTCOMES (General)

1. Explain the concepts of predictive and Total Productive Maintenance (TPM) systems.
2. Interpret monitoring indicators for optimal equipment performance.
3. Analyze potential maintenance issues with production equipment.
4. Explain documentation within a maintenance plan.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted