
SECTION HEADING

CMAE 1526: Maintenance Awareness

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.

Credits

2

Prerequisite

None

Corequisite

None

Topics to be Covered

1. Preventative maintenance and Total Productive Maintenance.
2. Predictive maintenance.
3. Fundamentals of lubrication, electrical systems, hydraulics, pneumatics, and power transmission systems.
4. System monitors.
5. Importance of production schedules.
6. Maintenance issues in different systems

Learning Outcomes

1. Explain concepts of preventative maintenance practices.
2. Apply predictive and preventative maintenance program skills for the following systems:

Electrical systems

Pneumatic systems

Hydraulic systems

Machine automation systems

Lubrication processes

Mechanical systems

3. Discuss Total Productive Maintenance.
4. Analyze potential maintenance issues with production equipment.
5. Explain documentation within a maintenance plan.

Credit Details

Lecture: 2

Lab: 0

OJT: 0

MnTC Goal Area(s): None