

MODULE TITLE	PREVENTATIVE MAINTENANCE
Nominal Duration	Half Module
Module Code or Number	EA 603
Module Purpose	To enable students to describe various maintenance systems currently used in industry, to carry out an audit of plant machinery and equipment, and to plan, implement and review a Preventative Maintenance Program.
Relationship to Competency Standards	<p>This module will be modified in line with the requirements of the National Metals and Engineering Standards when they become available.</p> <p>The module contains the knowledge and skills identified and agreed by all states/territories. It has been developed on the assumption that these will be reflected in the Standards.</p>
Prerequisites	NBB02 Occupational Health and Safety
Summary of Content	<ol style="list-style-type: none">Maintenance Systems Maintenance Terminology Preventative Maintenance Predictive Maintenance Corrective MaintenancePlant, Machinery and Equipment Audit Identify critical equipment/components Assess plant performance and history Identify labour and material requirementsCreation of a Preventative Maintenance Program Writing Preventative Maintenance Tasks Scheduling Preventative Maintenance Tasks Recording of informationReview of Preventative Maintenance Program Collection of data Comparison of present information with prior history.

Delivery

Learning outcomes

On completion of this module the student will be able to:

Learning outcome 1

Identify and describe various maintenance systems currently being used in industry.

Assessment criteria

With information provided identify, describe and give a practical application of three (3) kinds of maintenance systems.

Conditions

Assessment method

Assignment

Learning outcome 2

Carry out an audit of plant, machinery and equipment to determine the items that should be included in a Preventative Maintenance Program.

Assessment criteria

Prepare a project/report outlining the procedures/steps used in the compilation of the required plant audit for the implementation of a Preventative Maintenance Program.

Conditions

Assessment method

Project

Learning outcome 3

Create and implement a Preventative Maintenance Program for a range of engineering applications.

Assessment criteria

Using information from the previous project/report develop two (2) Preventative Maintenance procedures. One to be of calendar frequency and the other to be run time frequency.

Conditions

Assessment method

Practical

Learning outcome 4**Review the operation and effectiveness of a Preventative Maintenance Program.**

Assessment criteria

Give a detailed presentation regarding the operation and effectiveness of a Preventative Maintenance Program.

Conditions

Assessment method

Assignment

Suggested Learning ResourcesKelly, Anthony *Maintenance and its Management* (1989), EIT PublicationsPatton, Joseph *Preventative Maintenance* (1983)Dekker, Benjamin W *Engineering Maintenance Management*, APICS Publications

Maintenance Australia & New Zealand Journal, EIT Publications.

Industrial maintenance reference guide
New York: McGraw-Hill, 1987.Higgins, Lindley R.
Maintenance engineering handbook
New York: McGraw-Hill, 1994.