

COURSE AGENDA

Day 1

- Introduction to Predictive Maintenance
- Predictive Maintenance
 - Types of maintenance
 - What is predictive maintenance?
- Maintenance planning
 - Overview
 - Types of planning
 - Critical Path Method (CPM)
- Vibration Analysis
 - Introduction
 - What is vibration?
 - Vibration causes
 - Measurement
- Performance Monitoring
 - Introduction
 - Methods of monitoring
 - Measuring types
- Thermal Analysis
 - Introduction
 - Types

Day 2

- Lubrication and Fluid Analysis
 - Introduction
- Non-destructive Testing and Inspection
 - Purpose
 - Types
 - Methods
- Ultrasonic Measurement
 - Introduction
 - Types
- Insulation Testing
 - Introduction
 - Types
- Balancing
 - Intro
 - What is unbalance?
 - Methods

Fundamentals of Predictive Maintenance



COURSE NUMBER: MFG245

Course Purpose

The purpose of this course is to introduce and provide individuals with an overview of predictive maintenance and a basic understanding of the methods and tools required.

This course will present the following topics:

- Define predictive maintenance programs
- Define maintenance planning requirements and review Critical Path Method (CPM)
- Examine the principles of Vibration Theory and Analysis.
- Examine the basics of Lubrication and Analysis (Tribology).
- Examine the basics of Ultrasonic Analysis
- Examine the basics of Thermographic Analysis
- Examine the principles of Electrical Insulation Testing
- Define inspection and performance measurement techniques

Who Should Attend

All personnel who are responsible for maintaining facilities and equipment should attend this course. Maintenance personnel can use this course to meet entry level mechanics. Completion of this course will benefit persons in all crafts.

Prerequisites

None

Student Materials

To enhance and facilitate your learning experience, the following materials are provided as part of the course package:

- *Student Manual*, which contains the key concepts, definitions, and examples presented in the course.

Hands-On Practice

During the course, participants will have opportunities to complete paper exercises, while examining theory surrounding predictive science and affects of maintenance. These paper exercises will aid understanding of key essential terms and definitions.

Course Length

This is a two-day course.

Course Number

The course number is MFG245.

IACET CEUs

CEUs Awarded: 1.4



To Register

To register for this or any other Rockwell Automation training course, contact your local authorized Allen-Bradley Distributor or your local Sales/Support office for a complete listing of courses, descriptions, prices, and schedules.

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