

## Developing a Preventive Maintenance Program

### Purpose:

To give participants a systematic way to develop an effective preventive maintenance program for their machinery.

### Objectives:

At the completion of this course, the student who actively participates will:

- Understand how machines fail
- Understand how reliability is measured
- Describe how to reduce the effect of machine failures
- Describe a Preventive Maintenance system
- Describe a Predictive Maintenance system
- Describe a Planned Corrective Maintenance system
- Describe a Spares Management system
- Describe a Reliability Engineering system
- Describe how to setup a Planned Maintenance program
- Understand how to perform Reliability Centered Maintenance
- Describe Total Productive Maintenance (TPM)

### Description:

This is hands-on course. Participants will develop a PM system for several pieces of equipment. They are encouraged to bring information on actual plant machinery for this purpose.

### Content:

- Introduction
- What is reliability?
- How to decide which machine to do first
- Determining failure modes
- Actions to manage failure
- Putting together an overall schedule
- How to determine if a machine has too much or not enough maintenance.
- Payback analysis