



ME177

Advanced Techniques in Maintenance Management

Course Introduction:

This course will introduce participants to modern maintenance management techniques and assist them in becoming leaders in the maintenance profession.

Course Objectives:

Upon successful completion of this course, the delegates will be able to:

- Gain an advanced and broad base of knowledge to use in all aspects of maintenance
- Learn the basic methods for planning, scheduling, and controlling problems, priorities, projects and turnarounds and
- Introduce the Reliability Centered Maintenance.
- Gain practical ideas and create better relationships with peers, subordinates and superiors

Who Should Attend?

This course is designed for maintenance superintendents and supervisors, mechanical/ electrical/ civil engineers involved in plant maintenance, apprentice engineers, maintenance planners, shutdown managers and coordinators, and technical personnel.

Course Outline:

Day 1:

- Introduction
- The Definition of maintenance
- The evolution of maintenance
- Policy and objectives
- Maintenance policies and strategies
- Types of Maintenance
- The maintenance process
- Maintenance audits
- Benchmarking
- Life cycle costing
- The maintenance organization
- Field engineering
- Project engineering
- Plant inspection
- Spare parts

- Spare parts categories
- Selection of spares for Stock
- Decision rule
- Determining order quantity
- Maintenance documentation
- Computerized Maintenance management Systems (CMMS)
- Key performance indicators (KPIs)
- Categories of maintenance expenditure
- Recommended indices

Day 2:

- Planning and scheduling
- The role of each maintenance stakeholder
- Work types
- Work request acceptance/rejection
- Work order system
- The planning process
- Scheduling
- Issuing work to technicians, operators and contractors
- Backlog management

Day 3:

- Turnaround management
- Turnaround planning
- Planning concepts
- Logic & constraints
- Network diagrams
- Logistics

Day 4:

- Introduction to RCM
- Failures
- The sources of defects
- Consequences of failures
- Root cause failure analysis
- The RCM process
- RCM task selection
- Implementation

Day 5:

- Risk management
- Maintenance quality
- Health and safety aspects

Course Evaluation and Summary

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Fees:

To be advised as per course locations. This rate includes participant's manual, Hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session

