GLOBAL TRAINING INSTITUTE

Effective Maintenance: Key Theories and Principles for Success



GTI - Coordination Office and International Relations (Accredited Programs)

Course Description

The Effective Maintenance: Key Theories and Principles for Success training course focuses on effective maintenance and reliability best practices, addressing the challenges organizations face in managing equipment life-cycle costs amidst budget constraints. This course introduces practical tools and strategies essential for ensuring the reliability, integrity, and durability of physical assets throughout their life-cycle. Participants will gain insights into proactive maintenance approaches, failure analysis, and work management techniques to enhance resource efficiency and reduce costs.

Who Should Attend

This course is highly recommended for:

- Maintenance, Reliability, and Engineering professionals
- Technical support staff, including leadership and management
- Planners and Supervisors
- Reliability Engineers and Maintenance Team Leaders
- Operations Team Leaders and Managers

Course Objectives

By the end of this training course, participants will be able to:

- Understand key concepts of costs, capital, profit, and ROI in maintenance.
- Assess the cost impact of unanticipated failures on operations.
- Apply proactive maintenance policies to minimize future costs.
- Structure and analyze failure data to reduce repetitive failures.
- Identify root causes of unanticipated failure costs.
- Implement efficient work management practices to lower resource costs.
- Develop and execute effective preventive maintenance programs

Course Content

Overview of Maintenance Practices

- Types of maintenance: Corrective (CM), Preventive (PM), Predictive (PDM), and Proactive (ProM).
- Criteria for selecting appropriate maintenance strategies.
- Comparison of various maintenance strategies.

Maintenance Procedures

- Planning, work orders, and work permits.
- Tools and equipment needed for maintenance tasks.
- Job completion procedures, including disassembly and assembly.

Print Reading and Technical Diagrams

- Understanding P&ID, piping, and BFD diagrams.
- Reading and interpreting maintenance-related documentation.
- Utilizing technical drawings for effective maintenance.

Data Analysis and Failure Management

- Collecting and analyzing failure data to inform maintenance decisions.
- Implementing root cause analysis to address defects.
- Using software tools and templates for data management.

Work Management and Efficiency

- Work identification and defect reporting processes.
- Planning for quality and reliability in maintenance operations.
- Scheduling and logistics for efficient work execution.