Maintenance Management & Technology A to Z of Best Practices

Date		($)Fees	
21 December -25 December 2025	Kuala Lumpur	3500	Register Now

Why Choose this Training Course?

Maintenance Best Practices are critical for every successful individual and company. This comprehensive 10-day course has been designed to benefit both qualified new professionals as well as experienced professionals who might need to refresh their skills. It covers all the fundamentals of Maintenance that a suitably qualified professional would be expected to carry out during his duty starting with the first steps and building up in a stair case fashion to a fully functional maintenance organisation.

What are the Goals?

- To provide a step-by-step guide to maintenance best practice starting with foundations and building up to best practice that will deliver maximum business benefits
- To instruct Maintenance optimization best practice techniques
- To provide opportunities to discuss the application of these best practices
- Provide an opportunity to learn these concepts through practical exercises

Who is this Training Course for?

It is highly recommended that all Maintenance, Reliability, Engineering and technical support staff including leadership and management attend this workshop. If you and your company are interested in greatly increasing productivity, this will be a very valuable course.

How will this Training Course be Presented?

This workshop is designed to be a hands-on, stimulating experience. The course is highly interactive with many discussion and facilitated practice sessions.

The Course Content:

- Module 1: Maintenance Management Best Practices: Systems, Tools & Techniques

- Day One: An Overview of Key Maintenance Work Processes
  - Introduction to Maintenance Management
  - Definitions of key terms
  - Types of Maintenance - Reactive, planned and improvement jobs, Preventive and Proactive

- Day Two: Maintenance Management Systems
  - Maintenance Planning and Scheduling
  - Computerized Maintenance Management Systems
  - Developing Maintenance Key Performance Indicators

- Day Three: Preventive Maintenance and Maintenance Strategy
  - Maintenance Organization Structure and Policies
  - Developing and Implementing a Preventive Maintenance Program
  - Applying Reliability Based principles to Maintenance Strategy Development

- Day Four: Maintenance Logistics and Cost Control
  - Managing Maintenance Spare Parts and Logistics
  - Optimizing Spare Parts Inventory Levels
  - Maintenance Budgeting
  - Controlling Maintenance Costs
  - Introduction to Life Cycle Cost Concepts

- Day Five: Maintenance Team Work
  - Engineering, Production & Maintenance Teams
  - Benefits of Integrated teams
  - Motivation and empowerment
  - Total Productive Maintenance Concepts
  - Implementing Team Based Continuous Improvement in Maintenance

- Module 2: Maintenance Technology Best Practices: Inspection, Analysis & Monitoring

- Day Six: Failure of Machines and Inspection Based Failure Analysis
  - Causes of Machinery Failure
  - Wear Mechanisms
  - Fatigue
  - Fretting
  - Corrosion and Electrolytic
  - Fundamental Machine Problems
  - Balance Problems
  - Alignment Problems
  - Machinery Mounting Problems
  - Component Failure
  - Plain Bearings
  - Rolling Element Bearings
  - Couplings
  - Seals
  - Gears Drives
  - Belt Drives

- Day Seven: Statistical Failure Analysis and Reliability
  - Job Feedback and the Importance of History Records
  - Pareto Effects
  - Elementary Statistics
  - Collection, Analysis, Representation and Interpretation of Statistical Data
  - Reliability Models
  - Maintenance Cost Optimization

- Day Eight: Condition Based Maintenance
  - The Condition Based Approach
  - What to Monitor and Where

- Condition Monitoring Systems
- Trending of Monitored Data
- Frequency of Measurement
- Parameter Symptom Limits
- Remaining Life Prediction

- Day Nine: Machinery Condition Monitoring
  - General Purpose CM
  - Thermal Monitoring
  - Lubricant Monitoring
  - The Essentials of Vibration Monitoring
  - What is Vibration?
  - How to Measure Vibration
  - Where to Measure Vibration
  - How to Represent Vibration

- Day Ten: Vibration Analysis
  - Overall and Spectral Representation
  - The Big Five Machine Faults
  - Detecting Faults Using Vibration
  - Diagnosing Faults Using Vibration

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