Training Title

Maintenance, Reliability & Asset Management Best Practices (Inspection, Analysis & Monitoring)

Training Duration

5 days

Training Venue & Dates

REF	Training Title	Days	Dates	Price	Location
RM025	Maintenance, Reliability & Asset Management Best Practices (Inspection, Analysis & Monitoring)	5	22-26 July 2024	$5,500	Dubai, UAE

In any of the 4 or 5 star hotels. The exact venue will be informed later.

Training Fees

- **$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch.**

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

INTRODUCTION

Maintenance, Reliability & Asset Management Best Practices provides all the delegates great opportunities to optimise the performance of their systems and equipment to achieve maximum return on investment (ROI). By reducing costs and downtime, while achieving high levels of safety and quality. However, with the rapid pace of change in maintenance, and the emergence of many new concepts, methods and technologies, it is often difficult for managers with maintenance responsibilities to judge which of these new technologies are most appropriate to their specific needs, and which will provide them with the greatest benefits in practice. This Course provides an overview of a number of Modern Maintenance, Reliability & Asset Management Technologies associated with equipment,

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systems, people and management. It describes both the background to each technology, and its practical application to achieve the best bottom-line results. The Course looks at which areas of the maintenance manager's responsibilities will benefit from individual technologies. It also shows how they can be integrated to support each other, how to choose an appropriate selection of technologies, and how to develop an action plan for their implementation.

COURSE OBJECTIVES:

The delegates will learn how:

-To apply the appropriate Modern Maintenance, Reliability Technologies

- Each of these technologies contributes to maintenance efficiency

-These technologies can interact with and support each other

-To achieve the best results in practicing these technologies

To develop an action plan to utilize these technologies in their own areas of responsibility, fitting them into the overall maintenance strategy, and measuring benefits.

WHO SHOULD ATTEND

Supervisors, Team Leaders and Managers in Maintenance, Engineering and Production; Anyone who wishes to update themselves on Modern Maintenance Technologies, judge the suitability of these technologies for their needs, and learn how to implement them for the benefit of their organizations.

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.
Very useful Course Materials will be given.

- **30% Lectures**
- **30% Workshops and work presentation**
- **20% Group Work& Practical Exercises**
- **20% Videos& General Discussions**

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COURSE DAILY OUTLINE

Day-1

Introduction & Overview: challenging the traditional approaches to maintenance.
The road to Asset Management
Asset Management Standardization
Asset Management Cycle
PAS-55-1:2008 & PAS-55-2:2008
ISO-55000 & 55001 & 55002
Key elements of Asset Management System
Overview on CMMS & ERP
What Should CMMS & PM Module do
CMMS & PM Module benefits
Overview on work management.
Developing Instruments preventive maintenance work instructions
(Case study PCV & Analyzer & Control Valves & LS & LT& TT…etc.)
Controlling Maintenance Work (Understand backlog & root cause)
How to utilize CMMS in Asset Management & Work Management & Planning/scheduling
Criticality Analysis
Understanding of failure code hierarchy

Day-2

Advanced Maintenance, Reliability & Asset Management Best Practices Process
Concepts & Principles
Organization & People
Maintenance Polices (PM & PdM & CM)
Case study for RTF & PM
PdM different techniques
Advanced Maintenance Polices (RCM, RBSH, RBM, RBI)
Understanding risk
The seven steps of Risk Based Maintenance (RBM)
Failure Mode Effect Analysis (FMEA)
Reliability Centered Maintenance (RCM)
The seven questions of RCM
Case studies
The level of Reliability Excellence

Day-3

Applying Risk Based Maintenance & Root Cause Analysis (RCA)
Failure patterns and the different between RCA & RCFA

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Choosing the appropriate maintenance task
The role of operators: Autonomous Maintenance
Finding root causes to improve maintenance.
Useful tools for Determining Root Cause
Root Cause Analysis (RCA)
Case Studies

Day-4

Equipment Integrity (Pipeline & Pressure system) & monitoring
Corrosion & control and monitoring technique
Maintenance Assessments & Benchmarking
Process audits
Where are we now – benchmarking & assessments?
What to improve – goal setting
Action plan
Developing an improvement action plan and fitting in modern maintenance
Technologies
Monitoring (KPI's) and communicating results
Case Studies

Day-5

Performance Management & Implementation aspects
Continuous improvement
Performance management: behavior of people
Implementation aspects

NOTE:
Pre & Post Tests will be conducted
Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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