



## Maintenance & Reliability Best Practices ; Lowering Life Cycle Cost of Equipment

Date	Venues	(\$)Fees	Book your seat
10 Mar -14 Mar 2024	Cairo	2900	<a href="#">Register Now</a>

### Introduction

Lower revenues due to lower commodity prices have placed equipment life-cycle costs under the management spotlight like never before. Maintainers are faced with the challenge to deliver the same levels of equipment safety, reliability and availability with smaller budgets. This Maintenance & Reliability training seminar introduces the practical tools and practices that organisations need to adopt to drive down their equipment life-cycle costs in practical ways.

This seminar emphasizes the most effective strategies, policies, tactics and practices that are needed to ensure the reliability, integrity and durability of the physical assets through their life-cycle.

#### This training seminar will highlight:

- Financial concepts of costs, capital, profit and return on investment
- The model for asset healthcare
- Cost impact of equipment failure and degradation
- Proactive practices and tools to reduce maintenance costs
- Failure analysis to focus cost reduction efforts
- Work management to improve resource efficiency

### Objectives

#### At the end of this training seminar, you will learn to:

- Understand the concepts of costs, capital, profit and ROI
- Understand the cost impact of unanticipated failure
- Apply proactive policies to reduce future maintenance costs
- Structure and analyse failure data to reduce repetitive failures
- Identify root causes of unanticipated failure costs
- Reduce resource costs through efficient work management practices

### Training Methodology

The training seminar is delivered by means of a combination of instructor-led topic areas and class discussions. The training is further enhanced by the use of case studies, examples and practical exercises that are pre-loaded onto a laptop for each delegate. The templates, case studies, examples and exercises are subsequently available to each delegate after the seminar as a reference for further study, research or practice. This ensures a high level of knowledge and skill retention.

### Organizational Impact

## **The organisation will:**

- Gain an understanding of the sources of maintenance costs
- Be able to focus its resources on the events that contribute most to costs
- Gather and structure failure data in a meaningful way
- Eliminate defects that are driving costs

## **Personal Impact**

### **The participant will be able to:**

- Understand the behaviour and events that are driving costs
- Understand how poor reliability is a major factor in the cost equation
- Implement a PM program to improve reliability
- Implement root cause analysis to eliminate defects
- Apply best practice work management to ensure early detection and correction of defects

## **Who Should Attend?**

It is highly recommended that maintenance, reliability, engineering and technical support staff including leadership and management attend this seminar, including:

- Planners
- Supervisors
- Engineers
- Reliability engineers
- Maintenance team leaders and managers
- Operations team leaders and managers

## **SEMINAR OUTLINE**

### **DAY 1**

#### **Equipment Life-cycle Cost Introduction**

- Definitions of reliability, maintenance & asset management
- The concept of costs, capital, profits and return on investment
- The 'Asset Healthcare Model'
- Key areas of asset management
- Open discussion sessions

### **DAY 2**

#### **Cost Factors and Causes**

- The real cost of unanticipated failure
- Asset performance standards
- The forms of asset failure and degradation
- The causes and nature of asset failure and degradation
- The effects, cost and risks of asset degradation
- Practical application and discussion of case study

## DAY 3

### Breaking the Cycle of Degradation and Costs

- Programmed maintenance
- Programmed maintenance intervals
- Condition-based maintenance intervals
- Implementing optimised PM programs
- Optimizing spares to support the maintenance program
- Practical application and discussion of case study

## DAY 4

### Cost Reduction through Defect Elimination

- Failure data collection and analysis
- The impact of chronic failures versus intermittent failures
- Focus improvement through Pareto analysis
- Quantify losses in life cycle terms
- Rigorous root cause analysis techniques
- Root cause analysis case study
- Discussion of software and templates to support analysis


## DAY 5

### Work Management converts Strategy to Practice

- Work identification and defect reporting
- The importance of backlog
- Planning for quality and reliability
- Capacity planning
- Scheduling for efficiency
- Work logistics and preparation
- Checklists and practical aspects work quality control
- Final discussion and evaluation

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