Short Course Programme

Maintenance Cost Prediction

Introduction

Maintenance Cost is a critical element of the in-service economics of a system. System design has a significant impact on maintenance cost and it is important that it is addressed during the design process.

This course provides relevant knowledge, techniques and skills for maintenance cost prediction. It includes methods and processes that can be effectively used to quantify maintenance resource demands and predict maintenance cost. Analysis of maintenance cost prediction is used to identify strategies for cost reduction.

Designed For

This course has been designed for practicing engineers, analysts and managers and others who need to gain basic knowledge and understanding of analytical tools and techniques that can be applied in Maintenance Cost Prediction.

Objectives

By the end of this course you will be able to -

- Understand the fundamentals of maintenance cost
- Determine the demand drivers for maintenance resources
- Analyse maintenance tasks and resource demands
- Develop a systematic process for cost prediction
- Apply cost prediction tools and techniques
- Analyse maintenance costs and identify strategies for cost reduction

Content

- Concepts and Benefits
  - Maintenance Cost – Concept and Definitions
  - Cost Elements
  - Event, Process, Task and Resource Demand
  - Fundamentals of Prediction

- Maintenance Tasks, Resources and Costs
  - Maintenance Tasks: Corrective, Preventive, Condition-Based
  - Duration of Maintenance Task
  - Frequency of Maintenance Task: Scheduled and Unscheduled
  - Resource Demands and Maintenance Costs

- Maintainability Statistics
  - Mean Time To Repair, MTTR (Item)
  - Maintenance Hours per Operational Hour
  - Maintenance Personnel Demand per Restoration Task
  - Mean Time to Repair (System)
  - Maintenance Personnel Demand per Maintenance Task
  - Maintenance Hours per System Operational Hour

- Prediction of Maintainability Statistics
  - Maintenance Activity Block Diagram
  - Maintainability Measures for Simultaneous Tasks
  - Maintainability Measures for Sequential Tasks
  - Maintainability Measures for Combined Tasks
  - Analysis of Complex Maintenance Tasks
  - Maintainability Function
  - Mean Duration of Maintenance Task

- Maintenance Cost Estimating Relationships
  - Personnel
  - Materials

- Cost Prediction and Analysis Process
  - Process Rationale
  - Baseline Definition
  - Cost Elements and Structure
  - Cost Modelling – Inputs and Outputs
  - Analysis of Outputs
  - Strategies for Cost Reduction

Length

3 days

Key Information	
Dates	Please see website – www.mirceakademy.com.
Time	0900 – 1700
Venue	Woodbury Park Hotel, Golf and Country Club –approximately eight miles by road from Exeter (the nearest major city).
Cost	Please see website – www.mirceakademy.com.
Accommodation	Accommodation is not included in the course fee. Participants are responsible for the arrangement and payment of their accommodation. Reduced rates are available at Woodbury Park Hotel – contact Woodbury Park Hotel Reservations direct requesting the 'MIRCE' rate. Contact details are – Woodbury Park Hotel, Golf and Country Club, Woodbury, Exeter, EX5 1JJ, United Kingdom Tel +44 (0) 1395 233 382 Fax +44 (0) 1395 233 384 Email enquiries@woodburypark.co.uk Web www.woodburypark.co.uk A list of alternative accommodation in other hotels and guesthouses in the area of the course venue is available from MIRCE Akademy on request.
Booking	Please complete a Booking Form for each participant and return it to MIRCE Akademy – available to download at www.mirceakademy.com.

Contact us

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