Professional Education and Training

Short Course Programme

Spares: Planning, Management and Obsolescence

Introduction

Practice shows that, in a majority of cases, the shortage of spare parts causes a much higher delay in performing a maintenance task than the delays caused by any other reason. Hence, the users pf complex technological systems select, control and manage spare parts, quantity of which has a strong influence on system availability and the cost of ownership. An over-estimated quantity of results in a higher support cost with a great deal of capital tied up, whereas an under-estimated quantity results in a reduction of availability/profit. Therefore, the accurate prediction of the quantity, content and location of spare parts required is imperative for cost effective support of the operation and maintenance process. At the same time the accurate prediction of these resources depends on the accurate prediction of the very complex and multi dimensional demand process of the spares involved. For the operator, it is critical that the demand for spares is predicted as accurately as possible to avoid huge inventory cost and to provide cost effective support. Too many spares soon become a liability rather than an asset. Too few spares rapidly reduce operational effectiveness. For the supplier on: Contractor Logistic Support, Contracting for Availability, Buy Back, Power by the Hour and similar contractual arrangements this is “must” training course.

Objectives

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

- Understand the fundamentals of Spares Planning, Management and Obsolescence
- Identify appropriate models for applicable for the various dimensions of spares prediction
- Relate spares models, tools and techniques to contractual requirements
- Use spares modelling strategically to achieve operational availability or profit
- Determine the requirements of inventory management in the supply chain
- Predict and plan spares obsolescence strategy and manage it successfully.

Content

- Concept of Spare Part
- Basic Principles in Spares Modelling and Management
- Physical Causes for Spares demands of Systems/Components:
  - Failure event
  - Scheduled removal
  - Unscheduled removal
  - Packaging, transportation and storage induced demands
- Mathematical Calculation for Spares demands of Systems/Components
- Mathematical Modelling of Spares provisioning and consuming processes
  - Multi-Indenture Spares Model
  - Multi-Echelon Spares Model
- Mathematical Methods for Spares Optimisation:
  - Minimum Back Order
  - Maximum Availability or Mission Success
  - Minimum Cost
- Initial Provisioning Models
- Spares Management Process
- Obsolescence Spares management

Length: 3 days

Key Information	
Dates	24 – 26 October 2011
Time	0900 – 1700
Venue	Woodbury Park Hotel, Golf and Country Club –approximately eight miles by road from Exeter (the nearest major city).
Cost	£950.00 + VAT (tuition, course material, lunches and light refreshments)
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 under heading Communication and Training.

Contact us

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