Professional Education and Training

Short Course Programme

Supportability Engineering and Analysis

Introduction

This course provides participants with tools and techniques that can be used early in the design phase to effectively participate in a design process from the perspective of system supportability. Participants will be introduced to requirements identification and development and will learn to integrate supportability in design by focusing on factors such as configuration commonality and inter-changeability, use of standard parts and fasteners, and adherence to open system standards.

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 should be used in Supportability Engineering process from the concept to details stages of design.

Objectives

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

■ Understand system supportability philosophy, concepts, principles, terms, and definitions
■ Determine and develop system supportability requirements for new systems
■ Understand the integration of supportability modelling, prediction, and analysis methods and techniques in the system engineering process
■ Effectively use system supportability measures and integrate system supportability characteristics into system functionability characteristics
■ Identify weaknesses in the proposed design and propose solutions for their enhancement.

Content

- Supportability Engineering
  - Supportability Engineering: philosophy, concept, term, definitions and measures
- **Support process:**
  - **Support Tasks:**
    - Training
    - Storage
    - Packaging
    - Handling
    - Transportation
    - Provisioning
  - **Support Resources**
    - Personnel
    - Material
    - Facilities
    - Tools
    - Equipment
    - Data
    - Energy
- **Predictions of Supportability Measures**
  - Support Activity Diagram
  - Supportability Measures for:
    - Simultaneous Tasks
    - Sequential Tasks
    - Combined Tasks
  - Analysis of Complex Support Tasks
  - Supportability Function
  - Mean Duration of Support Task
- **Supportability and Functionability**
  - Discard or Repair
  - Standard Test Points
  - Standard Parts
  - Standard Dimensions
  - Simplified Technical English
  - Standard Training Devices
  - Standard Tools/Equipment
  - Existing Facilities

Case Studies and Applications: Boeing 777, French TGV Passenger Train, Formula 1 cars, Saab Gripen Military Aircraft, Airbus A 380 and A400M, Channel Tunnel

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	950.00 GBP + VAT (Please check at 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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