



Durability and Reliability Analysis

Introduction

Durability and Reliability are essential elements in achieving the planned operational effectiveness of a system. With the growing trend towards increased complexity and sophistication associated with large-scale and distributed systems, Durability and Reliability requirements have tended to become more difficult to meet and increasing amounts of time and resources are being spent as a consequence. This course has been designed to provide participants with the skills to effectively analyse and predict Durability and Reliability performance using advanced tools and techniques.

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 Durability and Reliability Analysis.

Objectives

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

- Understand the fundamentals of durability and reliability
- Use appropriate tools and techniques for durability and reliability analysis and prediction
- Integrate these tools and techniques with other analyses during the design and development of complex technological systems

Content

- Durability Analysis
 - System Functionability
 - System Failures
 - Durability – Concept, Terms and Definitions
 - Shapes of Randomness
 - Durability Measures
 - Durability Prediction
 - Durability Data
- Reliability Analysis
 - Reliability concept, terms and definition
 - Measures of Reliability
 - Reliability Function
 - Hazard Function
 - Matching Physical Processes with Mathematical Shapes
- System Durability and Reliability Analysis
 - Durability Modelling of Engineering Systems
 - Life Exchange Rate Matrix
 - Reliability Modelling of Engineering Systems
 - Repairable Engineering Systems
 - Non-Repairable Engineering Systems

Length

3 days

| Details | |
|----------------------|--|
| Dates | 10 – 12 Dec 2007 02 – 04 Jun 2008 10 – 12 Dec 2008 |
| Time | 0900 – 1700 |
| Venue | Woodbury Park Hotel, Golf and Country Club –approximately eight miles by road from Exeter (the nearest major city). |
| Cost | GB Pounds £950-00 + UK Value Added Tax (VAT) @ 17.5% Total Payable £1116-25 per person The cost includes all instruction, course materials, daily lunches and light refreshments. |
| Accommodation | Accommodation is not included in the 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 Engineering' 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 Engineering on request. |
| Booking | Please complete a Booking Form for each participant and return it to Mirce Engineering. |

Contact us

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