



Short Course Programme

<h3>Reliability Engineering</h3>	
<h4>Introduction</h4> <p>This course provides participants with methods, tools and techniques that can be used early in the design process to effectively influence system design from the perspectives of durability and reliability. Participants will be introduced to requirements development and definition and system functional analysis. Participants will also learn methods and tools that can be used to design for and to improve durability and reliability performance. Examples and case studies will be used to facilitate understanding of these methods, tools and techniques and how they can be applied in practice.</p>	
<h4>Designed For</h4> <p>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 Reliability Engineering.</p>	
<h4>Objectives</h4> <p>By the end of this course you will be able to -</p> <ul style="list-style-type: none"> ■ Define and analyse system requirements and to determine reliability and durability critical parameters ■ Conduct system functional analysis, optimise the system packaging concept, and allocate system reliability and durability measures ■ Identify opportunities to enhance system reliability and durability during the system architecture development phase ■ Understand the integration of reliability and durability modelling, prediction and analysis tools and techniques within the system engineering process ■ Identify system architecture and configuration weaknesses and isolate opportunities for targeted redundancy and derating 	
<h4>Content</h4> <ul style="list-style-type: none"> ■ Durability Engineering <ul style="list-style-type: none"> ■ Durability Measures ■ Stress-Strength Approach to Durability ■ Frequency Approach to Durability ■ Condition Approach to Durability ■ Reliability Engineering <ul style="list-style-type: none"> ■ Reliability Allocation Methods ■ Reliability Block Diagrams (RBD) ■ Reliability Predictions ■ Reliability Assurance (RA) ■ Reliability Centred Maintenance (RCM) 	<ul style="list-style-type: none"> ■ Reliability Engineering Tools and Techniques <ul style="list-style-type: none"> ■ Failure Mode, Effect and Criticality Analysis (FMECA) ■ Fault Tree Analysis (FTA) ■ Environmental Stress Screening (ESS) ■ Reliability Qualification Test (RQT) ■ Electronic Component Management Programme (ECMP) ■ Highly Accelerated Life Testing (HALT) ■ Sneak Circuit Analysis (SCA) ■ Reliability Life Cycle Management ■ Case Studies and Applications
<h4>Length</h4> <p>3 days</p>	
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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	<p>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 –</p> <p>Woodbury Park Hotel, Golf and Country Club, Woodbury, Exeter, EX5 1JJ, United Kingdom</p> <p>Tel +44 (0) 1395 233 382 Fax +44 (0) 1395 233 384 Email enquiries@woodburypark.co.uk Web www.woodburypark.co.uk</p> <p>A list of alternative accommodation in other hotels and guesthouses in the area of the course venue is available from MIRCE Akademy on request.</p>
Booking	Please complete a Booking Form for each participant and return it to MIRCE Akademy – available to download at www.mirceakademy.com .

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