

Professional Education and Training

Short Course Programme

Human Error Analysis for Maintenance

Introduction

There is a growing focus on the need to eliminate or reduce human error in maintenance and its consequences. Human error can cause maintenance error that can degrade the performance of a system and give rise to extremely serious safety and economic consequences.

Much of the initial focus in addressing human error has been placed upon the role of operators through personnel training, through the adoption of procedures and practices and through regulation. More recently, there has been an increasing awareness of the impact that system design can have on human error in maintenance. This course presents a systematic qualitative process for assessing design to identify and analyse potential maintenance error. It also demonstrates how specific design strategies can be developed to reduce the occurrence of maintenance error and to mitigate its consequences.

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 Human Error Analysis for Maintenance.

Objectives

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

- Appreciate the significance of human error in maintenance and the requirement for analysis
- Understand the analytic process and its relation to other analyses
- Identify and qualitatively analyse maintenance error its causes, consequences and detection
- Develop design strategies to eliminate or mitigation maintenance error and its consequences

Content

Content	
	Design Analysis and Assessment
Introduction and Overview	
Definition and Concept	Maintenance Error Management Strategies
Significance – safety, effectiveness and	
economic impacts	Maintenance Error Analytical Process
Maintenance Task Performance and	Process Structure and Rationale
Maintainer-System Interface	Process Inputs
Design Impact	Relation to Other Analytical Processes
■ Maintenance Error	(e.g. Maintenance Task Analysis)
System and Component – characteristics	Process Elements
and failures	Tools
Maintenance Tasks – characteristics and	Process Outputs – Design Solutions
types	Design Implementation
 Maintenance Error 	
– Types	Practical Exercise and Application
– Causes	
– Consequences	
Length	
3 days	
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Key Information		
Dates	Please see <u>www.mirceakademy.com</u>	
Time	0900 – 1730	
Venue	Woodbury Park Hotel, Golf and Country Club –approximately eight miles by road from Exeter (the nearest major city).	
Cost	£950.00 + VAT, tuition fee, course material on CD, light refreshments and lunches.	
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 <u>www.mirceakademy.com</u> under heading Communication and Training.	

Contact us

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