

# INTRODUCTION TO HUMAN FACTORS AND SYSTEM SAFETY

Introduction	Training Objectives																
<p>Duration: 0.5 days</p> <p>The Introduction to Human Factors and System Safety course will provide delegates with a general appreciation of safety engineering issues in the context of a typical systems development life-cycle.</p> <p>Human Factors are often cited as the cause of hazards within safety-related systems; yet system safety cases often contain no mention of them. Conversely, system operators or users often provide substantial mitigation between hazards and their associated accidents; yet this is also often overlooked. If human factors risks are not considered, a system will not achieve the required level of integrity.</p> <p>If human factors mitigations are not considered, the technical system components may be over engineered at additional cost to achieve a target level of safety.</p>	<p>The course aimed at providing engineers and project managers in a range of sectors (e.g. Defence, Aerospace, Rail etc.) with an appreciation of the human factors and ergonomics issues relating to safe systems development.</p> <p>This course will provide an introduction to the Human Factors discipline along with an overview of the scope of human factors analyses in the context of safety-related systems engineering. Attendees will also get an overview of the tools and techniques required for designing safer systems and exercises will provide participants with consolidation of the theory presented.</p> <p>At the end the course, participants will not be human factors specialists; however, the aim is that they will have a better understanding of how to achieve safer human factors designs and better plan for human factors integration within a safety-related systems development programme.</p>																
<p>A Training Objective (TO) is a precise statement of the skills and knowledge required of a trainee at the end of a training Session. The table to the right details the TOs for the Introduction to Human Factors and System Safety Course.</p>	<table border="1"> <tbody> <tr> <td colspan="2"><b>Session 1 – Human Factors and System Safety</b></td> </tr> <tr> <td colspan="2"><b>Session 2 – Human Factors – Definition and Scope</b></td> </tr> <tr> <td colspan="2"><b>Session 3 – Human Error cases</b></td> </tr> <tr> <td colspan="2"><b>Session 4 – Analysing Human Behaviour</b></td> </tr> <tr> <td colspan="2"><b>Session 5 – Human factors Exercise</b></td> </tr> <tr> <td>○ <b>BBC Video - Fatal Error</b></td> <td><b>(30min)</b></td> </tr> <tr> <td>○ <b>Causal Factors and Accident Barriers</b></td> <td><b>(30min)</b></td> </tr> <tr> <td colspan="2"><b>Session 6 – Q&amp;A</b></td> </tr> </tbody> </table>	<b>Session 1 – Human Factors and System Safety</b>		<b>Session 2 – Human Factors – Definition and Scope</b>		<b>Session 3 – Human Error cases</b>		<b>Session 4 – Analysing Human Behaviour</b>		<b>Session 5 – Human factors Exercise</b>		○ <b>BBC Video - Fatal Error</b>	<b>(30min)</b>	○ <b>Causal Factors and Accident Barriers</b>	<b>(30min)</b>	<b>Session 6 – Q&amp;A</b>	
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