



Programme

Human Reliability Analysis - Reducing Human Failure in Operations and Maintenance for Safety Critical Tasks - 18 July 2024 Virtual Course

Target audience

This course will introduce the concepts and methodology of Human Reliability Analysis as it is applied to safety critical tasks – those tasks associated with a site’s major accident hazard where any error in the execution of the task may lead to an erosion of layers of protection, the defeating of layers of protection, or even exposure to a major accident hazard. A taxonomy for human failure will be covered. Against each category the course will discuss what may make the failure more or less likely – the performance influencing factors, and hence what actions may be required to reduce the probability of a failure in the future, so increasing the site’s process safety

Why attend?

This course is an introduction to a key Human Factors tool – Human Reliability Analysis (sometimes known as Safety Critical Task Analysis or Human Failure Analysis) – and is targeted at personnel wanting to know more about the topic, including those charged with ensuring Human Reliability Analysis is conducted at their site, those who wish to lead simple HRAs, team members who participate in HRAs, and personnel who commission and procure HRAs for their site. The course will provide the underlying theory, plus an opportunity to practice applying the techniques.

Programme

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| 09:15 | Registration |
| 9:30 | Welcome & Introductions |
| 9:45 | What is Human Factors and Human Reliability Analysis - Guidance and expectations of the competent authority |
| 10:30 | Understanding Human Failures – a taxonomy and definitions |
| 11:30 | Techniques for reducing Human Failure rate |
| 12:00 | Performance Influencing Factors |
| 12:30 | Lunch |
| 13:00 | Hierarchical Task Analysis – identifying steps where error can occur |
| 14:00 | Putting it all together - completing an HRA worksheet - Case studies - Practical exercise |
| 16:20 | Review |
| 16:30 | Close |
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