



Reliability & Maintainability Engineer

Description:

Reliability and Maintainability (R&M) are related activities for ensuring that the operational effects upon the equipment/system performance and life cycle costs are identified and then considered during design, development, production and in-service stages during the CADMID cycle.

This is a concise and focused two day course for R&M engineers to build upon a basic understanding of R&M by learning the tools and techniques applied to design and testing. Delegates will be given an overview of programme requirements, deliverables and their relationship to equipment capability and the procurement process.

Aim:

To provide the necessary tools and techniques to understand and produce R&M predictions and calculations.

Duration:

2 days.

Pre-Requisites:

Completion of the Fundamentals of ILS course or an awareness of R&M within the CADMID cycle; an understanding of mathematical probabilities and MS Excel is also required.

Designed For:

Analysts and engineers assigned as an R&M Engineer within an R&M Working Group.

Course Content:

The course covers the following topics:

- Understanding the R&M requirements
- The different tools used to generate R&M predictions
- Use of recognised tools i.e. RBDs and Weibull analysis to generate predictions
- Analysis of reliability using FMEA and FMECA techniques
- Analysis of maintainability using MACMT and MTTR techniques
- The techniques used when monitoring reliability testing