

CC200

IEC 61508 Foundation

Duration: 1 day

Outline:

The course provides an introduction to IEC 61508 and IEC 61511 to cover the basic principles of the full lifecycle care for Safety Instrumented Systems (SIS). It covers the legal status, risk assessment, design principles and the development of testing and maintenance strategies.

Course Aims:

It is designed to raise the level of awareness of the requirements of IEC 61508. In particular, it addresses the issues of SIL rated equipment and the trap of number crunching rather than functional safety analysis. This course may satisfy the minimum training requirements of managers and supervisors who are to operate within IEC 61508 environments but is not sufficient, without further training, for engineers. This course allows time for discussions based around the client's specific 61508 concerns.

The following topics are covered at an overview level:

IEC 61508 concepts, risks, hazards, equipment failure, proof testing, SIL numbers, human error, demand & fault trees, dependency.

A certificate of attendance is provided.

Target Attendees:

Those who require an overview of IEC 61508:

Plant managers, Design, Process Development, Support and operations personnel as well as maintenance and commissioning engineers.

Course Pre-Requisites:

None

About the Trainers: Peter Waite

Peter Waite joined Aston Dane as a Senior Consultant and trainer in 1999 following 35 years in chemicals manufacturing for Imperial Chemical Industries resulting in his role as C/E Technical Support Manager for their World-wide Halo chemicals business. He has extensive experience in the design, construction and maintenance of plants having Potentially Explosive Atmospheres and has both implemented the CENELEC and ATEX Directives and helped influence the development of ATEX.

Peter has made Safety Systems one of his speciality areas and has developed systems that drive down the cost of ownership. It was this focus that he brought to local and European standards committees, in particular the European IEC 61508 CUIG group. Leading on from there Peter helped organise a successful DTI funded initiative SIPI 61508 aimed at promoting awareness through workshops of functional safety throughout the EC member countries.