

CC210

IEC 61508 Practitioner Course

Duration: 2 day

Outline:

A detailed course designed to allow the attendee to obtain a good working knowledge of IEC 61508 in order to support their needs.

Course Aims:

It is designed to raise the level of knowledge and understanding of the requirements of IEC 61508. Whilst attendees may require further help to be able to address complex 61508 issues, they should be able to manage the supplementary resource and be able to steer the process with some confidence. In particular, it addresses the issues of SIL rated equipment and the trap of number crunching rather than functional safety analysis.

The following topics are covered in some depth:-

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

The following topics are covered at an overview level:-

IEC 62061 (Machinery), IEC 61511, Functional Safety Engineering

Understanding is reinforced by syndicate work based on practical exercises from the real world of the manufacturing process. The course formally tests the learning of the attendees in a closed book environment. A certificate of achievement is provided.

Target Attendees:

Those who require a working knowledge of IEC 61508:

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

Course Pre-Requisites:

Attendance of Introductory /Foundation module provided by Aston Dane or an equivalent IEC 61508 course or previous detailed knowledge / experience of Functional Safety Systems, their installations / maintenance

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.