



■ Safe Software

The course is designed to provide the minimum necessary background for engineers who have begun to work in the production of safety related systems with a software component.

The course is taught by practicing engineers with over 30 years industry experience

Contents

Module 1: Overview
 Module 2: Introduction to safety: definitions, SILs, IEC61508, DEFSTAN and MISRA Guidelines
 Module 3: Introduction to hazard management, HAZOP, FMEA, FTA
 Module 4: Quality systems, why, good and bad points, boiled frogs, ISO 9001
 Module 5: Scheduling, hard v. soft realtime, concurrent execution, interrupts, jitter, scheduling analysis, interprocess communications, blocking, distributed systems
 Module 6: Testing, theory and techniques
 Module 7: Miscellaneous design issues, interfacing, communications, languages, calibration, maintenance,
 Module 8: Requirements capture
 Module 9: Reviewing

Provider

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Application sector

Automotive, Rail, Aerospace and related industries, MISRA Guidelines IEC 61508, ISO15504 (SPICE) Level 3

Target group

Software engineers starting to work in a safety related or safety critical environment

Prerequisites

Experience with developing software, a degree in computer science, electronic engineering or a related discipline

Duration

3 days, 21 hours (total)

Seminar schedule

Start Day 1: 09:00
 End final day : 17:00

Comments:

The course is delivered by experienced systems engineering practitioners, who can talk about their recent experience using the tools and techniques described on real projects.

Number of participants

max. 10

Lecturer

TBD

Seminar fee

Price on application

Dates/Location

Dates TBD. Location on customer site or at Pi Technology Ltd, UK.

Seminar descriptor

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