

DETAILS ON FUNCTIONAL SAFETY

The course is designed to provide participants with elementary and necessary knowledge about functional safety, based on the international standards IEC 61508 and IEC 61511.

Course Code SDFS

Duration 2 days

Max Class Size 5

Prerequisite The test consist of 15 Multiple Choices and 5 Open Questions. Total score is maximum 50 points. The Multiple Choice has a maximum score of 30 points and Open Questions of 20 points.

Who should attend this course?

For instrument engineers, application engineers, site engineers, project managers, operation engineers, maintenance engineers and all those who are involved in the design, realization, maintenance and operation of safety systems.

Day 1

Safety : What is safety? / Why Safety?/ What is Safety System?
Position of safety system in the total system.
Standards : IEC 61508/61511
Safety functions : What is a safety function,
Exercise
Engineering solutions
SIS architectures
SIS Realisation phase at Yokogawa
Failure types and Hardware Fault Tolerance

Day 2

Common cause, busy office example
Quantitative assessment : Parameters,
Calculations , formulas
Examination