

# 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