



### Objectives

To enable ProSafe-RS system engineers to develop a safety project using the available tools and working methods. The objective of the course is to guide the engineers from the beginning to the end in a safety process. The engineer will have to design, implement and test a safety system.

### Who should attend?

Process control engineers, process engineers, maintenance and technical support personnel.

### Prerequisite knowledge

Participants will require knowledge of computers and working knowledge of MS-Windows. It would also be beneficial for participants to have knowledge of electronics and Boolean logic.

### Programme

#### Day 1:

- ProSafe-RS Hardware & Documentation
- Introduction to ProSafe-RS Workbench
- Introduction to the ProSafe-RS Software Languages (IEC-61131-3)
- Understanding the various builders for project creation
- Function Block Logic

#### Day 2:

- ProSafe-RS Security Levels
- Building, Analysing and Downloading a Project
- Offline and Online Downloads
- Simulation, Variables Forcing and Locking
- Program Organization Units (POU)
- Function Blocks Instances
- Nested Instances

#### Day 3:

- Centum VP Integration
- Tag Name Builder
- Introduction to Override Function Blocks

#### Day 4:

- Inter-SCS Communication
- Exercise: Project Creation and Centum VP Integration
- ANLG\_S Function Block
- Trip Override Function Blocks

#### Day 5:

- Safety Principles (SIL, PFD, RRF)
- ProSafe-RS and Safety
- Additional Function Blocks

### Duration

5 days