

FUNCTIONAL SAFETY

IEC 61511

Order No. 9074418

One-day seminar
Functional safety
in the process industry



1 Description

System safety is particularly important when it comes to planning, installing, and operating systems in the process industry. This is why safety equipment based on process control engineering (PCE) is increasingly being used for risk reduction. The task of this safety equipment is to keep the process parameters in the safe range or to get them there. In order to ensure the planned risk reduction of the PCE safety equipment, systematic errors must be avoided and random errors handled during the entire lifecycle of the system.

This seminar will teach you the basic principles for achieving functional safety based on IEC 61511-1:2016 and other relevant standards. This will be clearly illustrated by using the safety lifecycle – from risk analysis and designing PCE safety equipment to validation, operation, and modification – as a continuous example. Typical questions about the selection of field devices, the aspect of “proven in use”, and the design of safe software will be answered.

2 Program

- Legal basis
- Roles of system planners and operators
- Innovations of IEC 61511-1:2016
- Risk analysis, HAZOP
- Safety lifecycle
- Functional safety management
- Specification of safety requirements
- Product-neutral design of PCE safety equipment
 - Architectures
 - Selection of field devices
 - Proof of effectiveness (proven in use)
 - Diagnostics of sensors
 - Planning of proof tests
 - Parameterization
 - Safety-related software
- Evidence of safety integrity
- PFD calculation

3 Target groups

- Planners, installers, operators, and test engineers of PCE safety equipment

4 Duration, date, and costs

1 day

Current dates and prices can be found on the Phoenix Contact website by searching for *functional safety seminars*.

or

Individual: location, date, and costs on request

We will be happy to prepare a non-binding quote for you.

To request this, speak to your personal sales partner directly or contact our headquarters in Blomberg.

5 Requirements

None

6 Further information

E-mail: safety-backoffice@phoenixcontact.com

Phone: + 49 5281 9-462777