

IEC 61511 - Functional safety for the process industry (ST-WSFSP)

Objectifs

In various process applications, more and more components and systems have to fulfil safety related tasks. Safe functioning of control and instrumentation is often essential for the safety of operating personnel and the environment.

Therefore it is essential to know the international standards for safe functioning of measurement and control technology and how to apply these correctly and intelligently.

The workshop offers an insight into the standards that relate to Functional safety and describes, by use of examples, the architectural possibilities for solutions to safety relevant tasks.

All aspects which need to be considered for the design of a hardware and software system in order to meet the requirements for Functional safety to a given safety integrity level will be discussed in this workshop. Furthermore references to practical applications are shown and reviewed.

Groupes cibles

Responsible people of design, erecting and operating companies etc. in the process industry

Project managers and planners of safety-related systems in the process industry (hardware & software)

Programme / Contenu

Introduction to Functional Safety

Accident cause and product liability

Overview IEC 61508 / 61511

Functional safety management

Safety lifecycle

- Risk analysis
- Allocation of safety functions to protection layers
- Safety requirement specifications
- Design and engineering of safety instrumented functions
- Installation and commissioning
- Operation and maintenance
- Modification (MOC) & Decommissioning

Prérequis

Knowledge of process measuring and control technology

Experience in the process industry

Remarque

There is an exam option at the end of the workshop (duration approx. two hours)

To consolidate the knowledge you have acquired we recommend that you take the course ST-WSPUP.

Type

Formation en salle

Durée

2 Jours

Langue

en