eFunctionalSafety®

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Safety Instrumented Systems for Process Operations Personnel

This course has been fully updated to comply with BS EN 61511 edition 2:2017.

Course Code
eFF-OPS

A course aimed at technicians and operations personnel who need to understand how to sustain the Safety Integrity Level (SIL) of Safety Instrumented Systems (SIS) for the long-term.

End users in the process industry sector have new obligations in the operation, maintenance and modification phases of the SIS safety lifecycle. As the new standard cancels and replaces the original, these modified obligations will apply to the ongoing operation and management of all safety instrumented systems with a SIL rating.

The course outlines the whole SIS safety lifecycle, and then focuses participants on the latest requirements for operation and maintenance of SIS.

New for BS EN 61511 edition 2: 2017

- Review and validation of HAZOP/LoPA assumptions
- SIS Cyber-security risk assessment basics
- SIS operations and maintenance procedures
- Bypass risk assessment and logging
- Inspection and proof testing do's and don'ts
- Compensating measures for managing risk during maintenance
- Logging and tracking of demands and failures

Venue

On-site or hosted at CB1 Business Centre, Cambridge, UK. CB1 2JD.

Duration

1 working day

Provided Materials

Printed Course Notes.

Fundamentals

An overview of the full SIS safety lifecycle according to BS EN 61511 edition 2: 2017.

LoPA and SIL

How to review Layer of Protection analyses for the operations and maintenance phase of the safety lifecycle.

Proof Testing

The importance of inspection and proof testing, plus real examples from industry on good and bad testing procedures.

Field failure

How to analyse field failure data, including probability of failure calculations from raw data records.

MoC

Management of change requirements for the SIS, including how to control hardware and software changes.

BOOKINGS: www.efunctionalsafety.com/training