

Safety Instrumented Systems & Functional Safety ONLINE self-paced course

Course Code
eLP003

An IChemE accredited course designed for all management, technical and operations personnel involved with the SIS safety life-cycle of IEC 61511 in the process industry sector.

This online self-paced course is aimed at process industry technicians, engineers and operations professionals to get a solid understanding of functional safety and SIS in the process industry sector. The course was developed in line with the latest version of international standard IEC 61511 (edition 2), with cross references to IEC 61508.

All learners get access to the e-Learning via our professionally hosted Learning Management System, which tracks progress over extended periods of learning at work or at home. Team leaders can monitor progress centrally, and optionally, embed their own materials.



"I have previously done Functional Safety Awareness courses but the knowledge learned in this course far surpassed what I have learned in the past."

Trevor Painting - Trainee Control Systems Engineer

"Very good foundation level course for Process Engineers looking for deeper understanding of the functional safety life cycle."

William Fairlie - Process Engineer

FEATURES - ALL COURSES

- 24/7 learning access to your online course via our SAP Litmos® Learning Management System (LMS)
- Narrated lessons, videos and quizzes
- Self-assessment multiple choice questions
- Certificate of completion, with CPD hours

TEAM LICENSE ADDITIONAL FEATURES

- Centralised reporting for course leader or administrator to track learner progress
- Optional instructor-led training sessions
- Optional customised LMS - add your own company materials
- 12 month access



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Module Title	Approximate Time to Complete (Minutes)
Course Instructions	10
Author's message	2
eLP003 - Pre-course survey (2 survey questions)	1
Safety in context	15
Buncefield Storage Depot Accident, UK - 2005	20
History of electrical systems in safety applications	10
SIS safety lifecycle overview	25
Quiz: SIS Introduction	20
The SIS safety lifecycle - ASSESSMENT 1	20
Key SIS terminology	30
Regulations and standards	20
IEC 61511 Edition 2 Introduction Video	5
Terminology and Standards Quiz	20
Key terminology - ASSESSMENT 2	20
Functional safety management overview	10
Competence introduction	5
Roles in the SIS safety lifecycle	15
Verification and Validation planning	5
Functional Safety Assessment & Audit	5
QUIZ: Functional safety management	20
Functional Safety Management - ASSESSMENT 3	20
Process Industry Hazards Introduction	15
Hazard analysis workflow and methods	15
Introduction to Probability and Frequency	30
Protection Layer Analysis and SIL Assessment	40
SIS cyber security risk assessment introduction	20
Hazards, risk and SIL - Quiz	20
Hazards, risk and SIL - ASSESSMENT 4	20
SIS Safety Requirements Specification	20
Safety requirements challenges	10
Safety requirements specification - Quiz	20
Safety requirements specification - ASSESSMENT 5	20
SIS Equipment Selection	15
SIS equipment failure	20
SIS & SIF Hardware design	30
SIS Software	25
Application programming example	5
Installation, commissioning and validation	5
SIS Design and Engineering Quiz	20
SIS Design and Engineering - ASSESSMENT 6	20
SIS Operations	20
Bypass and override	20
SIS inspection and proof testing	20
SIS Modification & Decommissioning	10
SIS O&M Quiz	20
Operation and maintenance of SIS - ASSESSMENT 7	20



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