



Applied Training

FSE210: Introduction to Tank Overfill Protection

Duration: 1 Day

Time: 8:00 am – 4:00 pm UTC -4

Date: See online store

Location: Microsoft Teams

Cost: \$850 USD / Student

Course Outline

A deep dive into overfill-protection strategies for atmospheric & low-pressure storage tanks.

Participants will explore:

- Introduction to tank overfill protection unit operation
- Prescriptive codes & standards for overfill systems including API 2350
- Overfill hazard analysis & scenarios
- Safety Function Definitions – What, When and How
- Applying IEC 61511: SIS design requirements for high high-level shutdowns
- Applying ISA84.91.03: LOPA credited IPL design requirements for high-level alarms, BPCS Level Controls, etc.
- Process Safety Time / IPL Response Time
- Group exercise – LOPA on a tank overfill event
- SIL verification calculations / SRS / C&E diagrams / test plans
- O&M considerations and bypass procedures

Instructor – Mike Scott – PE, CFSE

CEO of aeShield which has developed a patented digital process / functional safety lifecycle enterprise software offering deployed in 283+ facilities across 42 countries. He has over 30 years of process / functional safety and I&C experience including risk analysis, safety instrumented systems and control systems engineering, where he performed / implemented conceptual design, detailed design, configuration, and startup / commissioning exercises for the process industry.

- Co-Chairman of the ISA S84 Committee
- IEC 61511 committee member
- Granted 7 patents on safety lifecycle tools and implementation
- ISA Fellow