



Applied Training

FSE240: Introduction to LNG Safeguarding

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 LNG facility protection strategies. Participants will explore:

- Introduction to LNG liquefaction and storage tank operation with emphasis on instrumentation and controls as protection layers
- Prescriptive codes & standards that specify minimum design, fabrication, testing, and documentation requirements for instrumentation and controls associated with LNG (e.g., NFPA 59A, API 625, 49 CFR Part 193, etc.)
- LNG liquefaction and storage operation hazard analysis & failure modes
- Safety Function Definitions – What, When and How
- Applying IEC 61511: SIS design requirements for LNG facilities
- Applying ISA84.91.03: LOPA credited IPL design requirements for LNG facilities
- Process Safety Time / IPL Response Time
- Group exercise – LOPA on LNG facilities hazards
- SIL verification calculations / SRS / C&E diagrams / test plans
- O&M requirements and maintenance bypass protocols

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