

## Applied Training

# FSE200: Introduction to Burner Management Systems

Duration: 2 Days

Time: 9:00 am – 5:00 pm UTC -5

Date: See online store

Location: Microsoft Teams

Cost: \$1400 USD / Student

### Course Outline

This course provides a thorough overview of a Burner Management System unit operation and associated process safety related hazards based upon a natural single burner gas fired steam boiler and the various modes of operation (e.g., pre-fire, purge, light off, normal operation and post purge). This course includes:

- Introduction to BMS Unit Operation
- BMS Prescriptive Codes / Standards
- Applying IEC 61511 to BMS : SIS / BMS Design Requirements
- O&M Requirements
- Combustion Hazards
- Group Exercise – LOPA on single burner gas fired equipment
- SIL Verification Calculations / SRS / C&Es / Test Plans
- BMS Safety Performance Assessment

### Student Reviews:

- Worley - "It is a great opportunity to learn directly for industry subject matter expert, Mike Scott"
- Nutrien - "There is a gap in industry for this type of training"
- W.R. Grace - "Extremely informative to those unfamiliar w/fired system operation, especially in deciding and assessing safety functions allocated to the BMS"
- Eastman - "Fantastic course! Well worth the time and fee"

### Instructor – Mike Scott – PE, CFSE

Mike Scott is the CEO of aeShield, a software company that specializes in the digitalization of process / functional safety lifecycle solutions. He has over 30 years of experience associated with fired devices 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 Working Group on Burner Management Systems
- IEC 61511 committee member
- Granted 7 patents on safety lifecycle tools and implementation
- ISA Fellow