

# TÜV SÜD Functional Safety Training & Certification

Advance your career and your industry status by becoming an internationally recognized and certified Functional Safety Professional

## COURSE OUTLINE:

The TÜV FSP program aims to ensure that personnel performing SIS lifecycle activities are fully conversant in IEC and ANSI functional safety standards and meet competency requirements. Students that participate in this course will obtain a multi-disciplinary perspective to effectively execute, evaluate, and manage functional safety projects throughout the process industries.

The training course will include :

- Three days of in-class training.
- A supplementary fourth day dedicated to solving practical and real-life problems related to the implementation of the functional safety and reliability engineering.
- All teaching is student-oriented with interactive Q&A to maximize student involvement and learning.
- The FSP exam is half-day and will be held on the fifth day.

## AGENDA

### Topics Covered Include:

- Introduction to Safety Instrumented Systems and Functions
- Review of the General requirements of IEC61508 and ICE61511 and other Key SIS standards
- Importance of and the requirements of Functional Safety Management
- Probability and Statistics
- Safety, availability and reliability relationships
- Hazard identification and risk assessment concepts and procedures
- ALARP and tolerable risk
- Identifying safety functions
- Consequence Analysis concepts
- Likelihood analysis concepts
- SIL selections concepts and procedures
- Layer of Protection Analysis (LOPA)
- Safety Requirements Specification requirements
- Typical failure modes of equipment used in SIS
- Low vs. High Demand Systematic failures
- Reliability and System Modeling
- SIL verification calculations - Understanding different calculation methods and limitations
- Failure rate data and limitation
- Test Procedures and effectiveness
- General design concepts and procedures

To gauge interest in this training, please email [RSVP](#) below

Date: February 4-8, 2019

Time: 8am - 4:30pm

Cost: \$ 3150.00

Location: Lakeside Process Controls  
7 Sylvan Way  
Winnipeg, MB  
R2R 2B9



**CLICK TO RSVP**

