Safety Instrumented Systems – Design Verification & Justification

This 2-day course provides SIS design requirements and techniques based on the current and emerging Safety Instrumented System (SIS) standards and an overview of Safety Engineering from the Process Control, Instrumentation and Maintenance Engineer point of view. Safety Instrumented System (SIS) design and analysis is covered in depth. SIL verification techniques based on block diagrams, fault trees, and Markov analysis is covered with solutions using excel spreadsheets.

**Day One**
- Introduction to Safety Instrumented Systems (SIS)
- Overview of the Safety Lifecycle and Risk Management
- Probability Theory
- Basic Reliability Engineering
- System Reliability Modelling

**Day Two**
- SIS Failure Modes
- Safety Instrumented System Design
- Fault Tolerant Architectures
- Safety Instrumented System Functions (SIF) Verification using block diagrams, fault trees, and Markov analysis
- SIS Justification
- Installation, Start-up & Operation and maintenance

**Who should attend**
- Those who want a good review prior to taking CFSE application exam
- Loss Prevention Professionals
- Instrumentation Engineers & Technologists
- Safety & Reliability Engineers & Coordinators
- Maintenance Engineers & Technicians
- Management personnel

**Contact Us** to bring this workshop to you or for more information

Continuing Education and Training Center
1250 Wellington Street, Unit#20,
Sarnia, Ontario, Canada N7S 5P4
Phone: 519-337-3359
Fax: 519-337-3643
E-mail: cetcenter@yahoo.com