

SIL Solver Enterprise® - 1 Day Course

Time: TBD

CEUs: 0.75

Audience: Control system specialists, instrumentation and electrical personnel, and SIS design specialists

Description: The SIL Solver® Enterprise course introduces new users to SIL Solver Enterprise and how it is used to verify the safety integrity level (SIL) and spurious trip rate (STR) of safety instrumented functions (SIF). The course is 50% lecture and 50% hands on practice. Attendees will complete workshops on identifying SIF and creating failure models of varying complexity. Participants must have access to a web browser. Two display screens are preferable so that the participants can see the function being modeled on the instructor's screen and being modeled by themselves.

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| <p>1) Why Verification?</p> <ul style="list-style-type: none"> a) Verification Introduction b) Target Failure Measure c) Mode of Operation d) Hardware Fault Tolerance e) Low Pass Flow | <p>3) Fault Detection and Common Cause</p> <ul style="list-style-type: none"> a) Diagnostics and MTTR b) Testing, Test Interval, Test Coverage c) Common Cause d) Surge Drum - Workshop |
| <p>2) Selecting Data and Determining What to Model</p> <ul style="list-style-type: none"> a) Database Structure b) Identifying the Function c) Back Flow d) Hot Spots e) Building and Promoting Custom datasheets | <p>4) Beyond the P&ID and Cause & Effect</p> <ul style="list-style-type: none"> a) Non-safety Functions b) Hidden Devices c) Pump Protect - Workshop d) Support Systems e) Final Elements - Workshop |

Instructors:

Dr. Angela Summers is the president of SIS-TECH. She holds a PhD in chemical engineering and has over 30 years of experience in instrumentation and controls. Dr. Summers is a fellow of AIChE, CCPS, and ISA and is a distinguished engineering fellow of Mississippi State University and the University of Alabama. Recently, she was awarded IEC's 1906 award for her contribution to the development of standards and practices covering the use of automation to prevent loss events in the process industry.