



## SIS, Monitoring and Control

### MODULE

#### About the Skill Module

This skill module is comprised of two sections, Safety Instrumented Systems (SIS) and Monitoring and Control. Within this skill module, you will find multiple control method examples and the concepts of SIL and SIF, and a case study that highlights the module.

[See example online learning module](#)

#### Target Audience

Anyone who needs to work with process safety engineers; this would include facilities engineers, operations and maintenance supervisors, project engineers and managers, entry level process safety engineers, experienced professionals new to oil and gas, and anyone who needs a general understanding of the breadth of the process safety engineering discipline. Technical staff from insurance companies and regulatory agencies have found the course useful.

#### You Will Learn

Participants will learn how to:

- Define and explain process control
- Identify the process safety instrumentation goals
- Identify and discuss the methods of control
- Describe the elements of feedback, cascade, and feedforward control
- Explain control modes and the elements of alarm philosophy
- Discuss the application of SCADA, DCS, MVC, MIS
- Describe Safety Instrumented Systems
- Illustrate when and why Safety Instrumented systems are used with reference to some key aspects of IEC 61511/ISA S84
- Define Safe Integrated Levels (SIL) and its assessment
- Discuss the effects of Test Frequency on Risk Reduction and Safe Integrated Levels

#### Product Details

Categories: [Midstream](#)

Disciplines: Process Facilities Health, Safety, Environment

Levels: Basic

Product Type: Individual Skill Module

Format: On-Demand

Duration: 3.5 hours (approx.)

**\$395.00**