



## Control Systems for Oil and Gas Applications (Part 1)

### MODULE

#### About the Skill Module

This skill module provides an introduction and overview of control systems typically encountered in the oil and gas facilities.

[See demo online learning module](#)

#### Target Audience

Process, chemical, and mechanical engineers, (i.e. non-instrumentation and non-electrical disciplines), as well as other technical and non-technical professionals with little or no background in IC&E systems.

#### You Will Learn

Participants will learn how to:

- Describe the relationship between current, voltage, and resistance
- Differentiate between self-powered and loop-powered devices
- Explain the nature of backup AC and DC power
- Describe what is control, types of control, and its purpose and architecture
- Identify the nature of analog and digital input and output signals
- Describe signals, the use of pneumatic actuators and control systems, and managing noise
- Identify various signal converters and types of wiring and cabling
- Describe instrument tag numbers, PID symbols, and documentation

#### Product Details

Categories: [Upstream](#)

Disciplines: [Instrumentation, Controls & Electrical](#)

Levels: [Basic](#)

Product Type: Individual Skill Module

Format: On-Demand

Duration: 4 hours (approx.)

**\$395.00**