Field Instrumentation
Pressure and Temperature Advanced

General Information
Course Code: PIA-PRPRTC2A
Length: 1 Day

Audience
This comprehensive course is intended for technical individuals responsible for routine maintenance and calibration of pressure and temperature instrumentation. Additionally, sales representatives responsible for selling and specifying these technologies will benefit from this class.

Profile
This course covers basic theory, applications, and configuration of field instrumentation.

Pressure technologies will cover the entire Siemens portfolio, focusing on the SITARANS P DSIII/P410.

Temperature technologies covered will include sensor and transmitter options in the SITRANS T family.

This comprehensive class will cover specific applications, as well as accessories required for these applications, such as diaphragm seals, shut-off fittings, and more.

Objectives
Upon completion of this course, the student shall be able to:

- Understand different pressure measurement types and apply them in a variety of applications.
- Configure a SITRANS P DSIII pressure transmitter via the local pushbuttons and HART (PDM software).
- Troubleshoot pressure and temperature transmitters in the field.
- Recognize and select different temperature sensor types and technologies.

Topics
1. Pressure measurement
   a. Theory
   b. Sensor/transmitter construction
   c. Transmitter/transducer portfolio
   d. Diaphragm seals and accessories
   e. Applications
   f. Programming and configuration

2. Temperature measurement
   a. Theory
   b. Sensor/transmitter construction
   c. Applications
   d. Programming and configuration