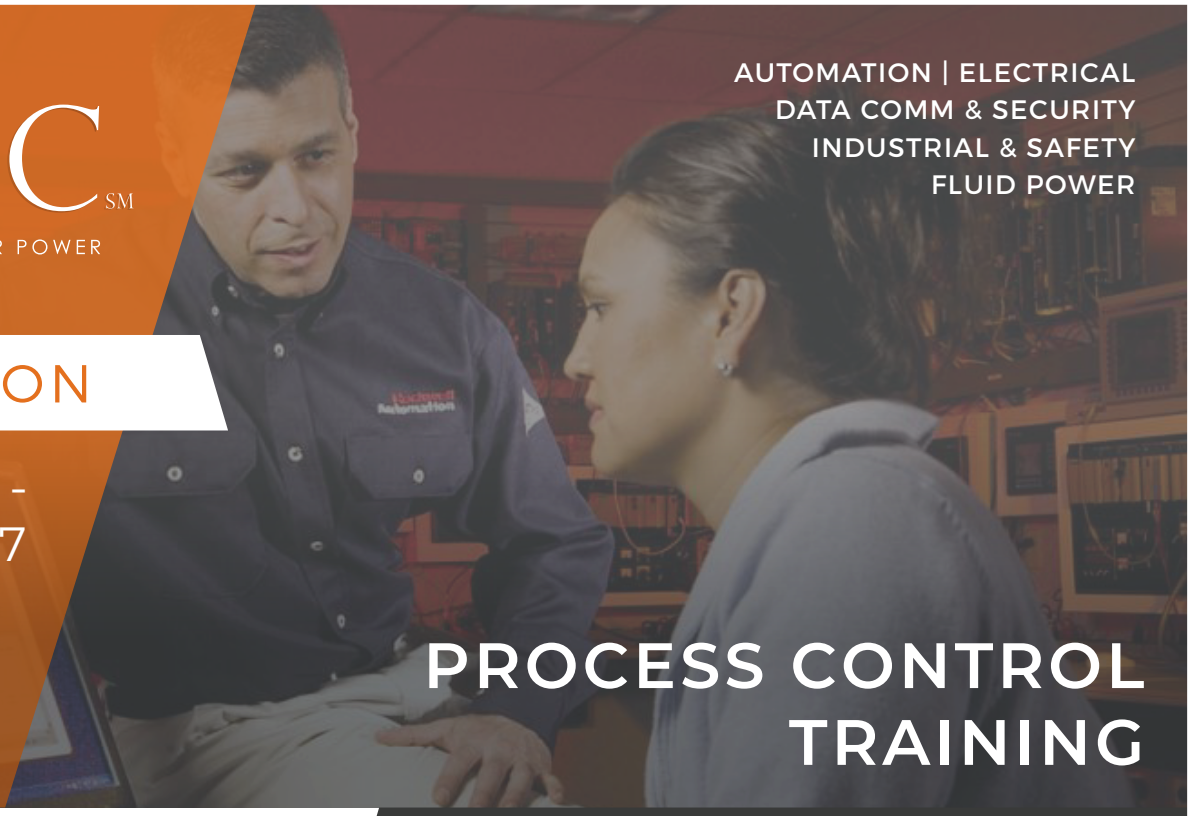
SMC SM

OUR KNOWLEDGE IS YOUR POWER

AUTOMATION | ELECTRICAL
DATA COMM & SECURITY
INDUSTRIAL & SAFETY
FLUID POWER



# AUTOMATION

## WED. JAN. 26 - THURS. JAN 27

8 AM - 5:00 PM

SMC SEDALIA
1616 W. MAIN ST.
SEDALIA, MO 65301

# PROCESS CONTROL TRAINING

## TRAINING EVENT

This course is designed for individuals working with process instrumentation. Upon completion of this course, individuals will have an understanding of different field instrumentation with the following disciplines; pressure, flow, temperature, and level. This course will provide a hands-on experience for device configuration and scaling analog signals in Studio 5000. This will provide the adequate skills for overall system improvement.

Each attendee will also receive:

- 4 to 20mA Analog Simulator and 0-10VDC Generator (SIM-ALP2)
- Ethernet/IP Address Explorer DHCP and BOOTP Server (SIM-IPE)

### + HANDS-ON

Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises.

### COST

$995
Includes Lunch

### REGISTER

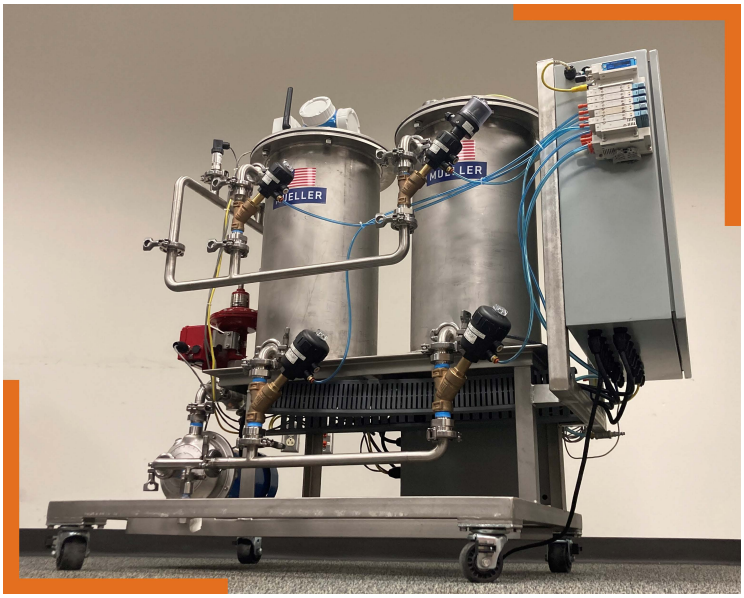
To register, contact Ashli Anderson at aanderson@smcelectric.com by January 10, 2022.

# PROCESS TRAINING

## SCHEDULE

### DAY 1

- Define Process Control and identify the components that make up a Process Control System
- Define Continuous, Batching, and Discrete Process Systems
- Types of Pressure Measurements
- Flow Instrumentation
    - Comparing Mass Flow vs. Volumetric Flow
- Discussing Temperature Scales/ Converting
- Types of Level Measurements
    - Point Level vs Continuous Measurement
- Examine Common Types of Valves and Actuators



SMC PROCESS TRAINING CART

### DAY 2

- Demonstrate and review our Process Training Unit
    - Industrial Networks Introduction
    - Studio 5000 Overview
    - FactoryTalk View Studio Overview
    - PlantPAX Process Library Overview
    - Adding Faceplates and AOIs
    - Scaling Analog signals
- Pressure Instrumentation Review
    - Add pressure Transducer AOI in Studio 5000
- Flow Instrumentation Review
    - Add Flow Meter AOI in Studio 5000
- Level Instrumentation Review
    - Add Level Transmitter AOI in Studio 5000
- Control Valve Review
    - Add Control Valve AOI in Studio 5000
- PID Theory/Terminology