

## Introduction to Process Control



**Course 9007**      **CEUs: 2.8**

### Overview

This 4-day Fisher Controls provides those new to the field with the basic, overall fluid process controls knowledge they need to better understand the interrelationships associated with automated control loops. All major aspects of process control (measurement devices, controllers, final control elements, and fundamental control methods) are covered by classroom presentations and laboratory exercises that familiarize students with equipment commonly found in process plants.

**Prerequisites** Some experience with process measurement and control may be helpful, but is not required.

### Topics

- Process Control Terminology
- Process Loop Introduction
- Measurement Instrumentation for:
  - Flow
  - Level
  - Temperature
  - Pressure
- Instrument Calibration Concepts
- Final Control Elements
  - Control Valves
  - Actuators
  - Instrumentation
- Introduction to Loop Dynamics, Tuning, and Control
  - Proportional Control
  - Integral Control
  - Derivative Control
  - Ziegler-Nichols Tuning
  - Lambda Tuning

**Course Location** Control Dynamics, Inc., 201 Wydlrose Dr., Midlothian, VA 23113

**Course Dates** June 15 – 18, 2010      **Registration Deadline** 3 weeks prior to course start date

**Sponsored By** Emerson Educational Services and Control Dynamics

**To Enroll or for Information Contact** Connie Goodman at 804-858-5878 or [Connie.Goodman@Control-Dynamics.com](mailto:Connie.Goodman@Control-Dynamics.com)

**Price** \$2,100 USDL

Purchase order or payment is required at the time of enrollment. Please make PO, check, or credit cards payable to Control Dynamics, Inc.

**Cancellations:** If your plans or budgets change, you may cancel your reservations up to 14 calendar days prior to the start of the course without incurring a cancellation charge. Limited enrollment makes it necessary to charge 50% of the full tuition for cancellations received during the 14 days prior to the start of the course, and full tuition for failure to attend without canceling. Substitutions are accepted until the first day of class.