

Johnson Controls Institute Course

Introduction to HVAC Digital Control Systems (#375)

\$1,095/\$945

(1.3 CEU)

This course provides a basic understanding of the features, architecture and capabilities of Direct Digital Control (DDC) controllers in a Facility Management System. Hands-on lab exercises focus on developing the basic skills necessary for configuring controllers, tuning PI control loops and troubleshooting.

Course Length: 2 Days

Class ends at 3:30 p.m. on day two

COURSE TOPICS

- Evolution of Controls: Pneumatic to Digital
- Computer and DDC Terminology
- DIP Switch Setup and Binary Numbering System
- Inputs to Direct Digital Control (AI, BI)
- Analog and Binary Sensors
- Outputs from Direct Digital Control (AO, BO)
- Software Data Points (Analog and Binary)
- ESO Precautions
- Control Loop Types (P, PI, PID, ON/OFF)
- Reset Control and Sequence of Operations
- Programming Direct Digital Controls
- Types of Programming:
 - Line/Function
 - Menu/Function
 - Graphical/Function
- Overview of Facility Management Systems
- Hands-on Labs

