

# Johnson Controls Institute Course

## HVAC Pneumatic Controls – Multi-Manufacturer (#221)

\$1,445/~~\$1,295~~  
(3.0 CEU)

**Increase the comfort levels and operating efficiency of your facility by properly calibrating and maintaining your pneumatic control equipment.**

This one-week course provides a comprehensive overview of maintenance requirements, calibration procedures and troubleshooting techniques. Hands-on lab exercises emphasize calibrating and troubleshooting using pneumatic controls from a number of manufacturers, including Johnson Controls, Honeywell, Landis and Staefa, Robertshaw, and Barber Colman.

**Prerequisite:** Fundamental Control Strategies for HVAC Systems (#215) or HVAC Mechanical Systems (#210) or Equivalent Experience

### MONDAY

AM: Building Environment, HVAC, Control Systems  
PM: Air Distribution Systems  
Pneumatic Air Supply Systems  
Room Control – Temperature and Humidity

### TUESDAY

AM: LAB: Single Setpoint Controllers, Thermostats and Humidistats  
Dual Setpoint Room Controllers  
PM: LAB: Dual Setpoint Controllers  
Valves and Actuators

### WEDNESDAY

AM: Dampers and Actuators  
LAB: Pilot Positioners  
PM: Mixed Air Control and Economizers  
Auxiliary Devices  
LAB: Auxiliary Devices  
Discharge Air Control  
Temperature, Humidity, and Pressure Transmitters

### THURSDAY

AM: Single Input Receiver Controllers  
LAB: Single Input Receiver Controllers  
PM: Dual Input Receiver Controllers  
LAB: Dual Input Receiver Controllers

### FRIDAY

AM: Variable Air Volume Overview  
Final Review

Course ends at 11:30 a.m.

