

# Johnson Controls Institute Course

## Metasys HVAC ASC Engineering (#353)

\$1,595/**\$1,445**  
(3.0 CEU)

**Take control of your facility equipment by programming and testing your own control strategies for Application Specific Controllers (ASCs).** Participants will learn how to access and read existing strategies, create custom programs, and download and test their configurations. Extensive hands-on lab activities use HVACPRO software to create strategies for AHU, UNT, VAV, and VMA controllers. Additional lab exercises focus on building sideloops and using the automatic loop tuning tool. The knowledge gained in this course is a strong foundation for proficient ASC troubleshooting. This is an excellent course for experienced building personnel who want to expand their knowledge of HVAC Control Systems and Johnson Controls ASC devices.

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

### MONDAY

AM: ASC Controllers  
Control Theory Terminology  
LAB: Control Theory  
Control Strategies  
ASC Configuration Files  
LAB: ASC Configuration Files  
PM: File Names and Locations  
LAB: File Names and Locations  
HVACPRO Overview

### TUESDAY

AM: Downloading and Commissioning ASC  
Controllers  
LAB: Downloading and Commissioning ASC  
Controllers  
Loop Tuning  
LAB: Loop Tuning  
PM: Adding Points to an ASC  
LAB: Adding Point to an ASC  
Writing a Configuration File  
UNT Controller  
LAB: UNT Controller and Programming

### WEDNESDAY

AM: AHU Controller  
LAB: AHU Controller and Programming  
PM: VAV Controller  
LAB: VAV Controller and Programming

### THURSDAY

AM: VMA Controller  
LAB: VMA Controller and Programming  
PM: Sideloops  
LAB: Sideloops

### FRIDAY

AM: Optional Labs  
Hand-held Interfaces: Zone Terminal and VMA  
Balancing Tool  
LAB: Hand-held Interfaces: Zone Terminal and  
VMA Balancing Tool  
Point Mapping to Supervisory Controller  
Misc. Controllers, Products, Topics

Course ends at 11:30 a.m.

