

Johnson Controls Institute Course

Variable Air Volume Systems and Controls (#317)

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

The Variable Air Distribution System is the most popular air distribution system used today! Find out why these systems are so popular in this introductory course.

Building owners, engineers, maintenance personnel, and HVAC technicians will receive a comprehensive introduction to Variable Air Volume Systems and Controls. Classroom discussions focus on VAV system components and control strategies. Hands-on lab exercises develop understanding, calibration, and troubleshooting skills on the most popular pneumatic and digital controls used to control VAV systems. This is an excellent course for anyone who wants to understand how VAV systems operate and how they are used to conserve energy in your facility.

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

MONDAY

AM: Building Environment, Systems, and Controls Control System Fundamentals
PM: Air Distribution System Configurations
Variable Air Volume Systems – Introduction

TUESDAY

AM: Psychrometrics and Air Properties,
Air Pressure and Flow: Principles and
Measurement
Air Pressure and Flow Instrumentation
HVAC Fan Types, Configurations, and
Performance
PM: Fan Capacity Control Methods
Static Pressure Control Strategies
LAB: DPT Operation and Calibration

WEDNESDAY

AM: LAB: Static Pressure Control
Ventilation and Building Pressure Control
Strategies
PM: LAB: Building Pressure Control
VAV Terminal Unit Configurations

THURSDAY

AM: VAV Terminal Unit Control Strategies
PM: VAV Terminal Unit DDC and Pneumatic
Controls
LAB: VAV Terminal Unit DDC and
Pneumatic Controls

FRIDAY

AM: VAV System Analysis
Review Session

Course ends at 11:30 a.m.

