

Johnson Controls Institute Course

Metasys DX-9100 Engineering (#364)

\$1,705/~~\$1,555~~
(3.0 CEU)

Optimize comfort and energy usage in your facility by unlocking the full potential of your DX-9100 controller. Experienced DX-9100 users will learn how to create and modify their own DX-9100 application programs using Windows-based GX-9100 software. The power of the DX-9100 controller family is in its flexibility. Laboratory exercises include discharge air temperature control, discharge air reset, timed overrides, alarm annunciation and more! This course is an excellent follow-up to Metasys® DX-9100 Operations/Troubleshooting Course for those looking to develop their skill in programming and troubleshooting their DX-9100 system.

Recommended Prerequisite: Fundamental Control Strategies for HVAC Systems (#215) **and** any Metasys Facility Operator course: (#300A, #350, #385, #387, #388, #389, #394).

MONDAY

AM: Introduction to the DX-9100 System
LAB: Identifying DX and XT/XP Hardware
PM: Front Panel Operation
LAB: Using the DX Front Panel
DX Commissioning Tool
LAB: Calibrating AIs and AOs

TUESDAY

AM: Creating an Application Using GX-9100 Software
LAB: Building a Simple DX-9100 Program
PM: Input Point Configuration
Output Point Configuration
Expansion Point Configuration
LAB: Creating a AHU Program

WEDNESDAY

AM: Control Modules
LAB: Discharge Air and Mixed Air Temperature Control
Introduction to Numeric Modules
LAB: Economizer Switchover and Run Alarms
PM: Numeric Modules
LAB: Discharge Air Reset, Enthalpy Switchover

THURSDAY

AM: Programmable Logic Controller
LAB: Alarm Annunciation, Timed Occupancy Override
PM: Using Library Functions
LAB: Adding a Library Routine

FRIDAY

AM: LAB: Student Selected Topic*
Final Review

**Topics Available for Student Selected Labs:*

Introduction to DT-9100 Display
Networking to Metasys NAE
Networking to Metasys NCM

Course ends at 11:30 a.m.

