Building Automation for
Facilities Maintenance 2
2 Days
Hybrid Course – Physical Hands-On Class with Optional Free Online Course

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This course explains how building systems, such as HVAC, lighting, and security systems, can communicate information through a network of control devices. Emphasis is placed on these control devices and how they work together in common automation scenarios.
Topics covered include the operation, signal types, and functions of the sensors, actuators, and other control equipment used in automated systems in commercial buildings. The textbook is organized by building system, and the operation of each system is explained to clarify the function and application of each control device. This system-based foundation is then used to introduce typical interactions between multiple systems within a building.

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1. Fire Protection System Control Devices and Applications
   - Fire Protection Systems
   - Fire Alarm Signals
   - Fire Alarm Control Panels
   - Fire Protection System Control Devices
   - Fire Protection System Control Applications

2. Security System Control Devices and Applications
   - Security Systems
   - Security System Signals
   - Security System Control Panels
   - Security System Control Devices
   - Security System Control Applications

3. Access Control System Control Devices and Applications
   - Access Control Systems
   - Access
   - Access Control System Control Devices
   - Access Control System Control Applications

4. Voice-Data-Video System Control Devices and Applications
   - Voice-Data-Video (VDV) Systems
   - VDV Control Information
   - VDV System Control Devices
   - VDV System Control Applications

5. Elevator System Control Devices and Applications
   - Elevator Systems
   - Conveyance
   - Elevator System Control Devices
   - Elevator System Control Applications

6. Automated Building Operation
   - Building Automation System Operation
   - Building Automation System Example
   - Building Automation System Protocols

Class Options:

Building Automation for

Facilities Maintenance 1

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