Building Automation for Facilities Maintenance 1

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. Introduction to Building Automation
   - Building Automation
   - Control Devices
   - Control Signals
   - Control Information
   - Control Logic
   - Building Systems

2. Electrical System Control Devices and Applications
   - Electrical Systems
   - Control and Monitoring of Electricity
   - Electrical System Control Devices
   - Electrical System Control Applications

3. Lighting Systems Control Devices and Applications
   - Lighting Systems
   - Light
   - Light Sources
   - Lighting System Control Devices
   - Lighting System Control Applications

4. HVAC System Control Devices
   - HVAC Systems
   - Comfort
   - HVAC System Control Devices

5. HVAC System Applications
   - HVAC System Applications
   - Air-Handling Unit Control Applications
   - Smoke Control
   - Terminal Unit Control Applications
   - Hydronic and Steam Heating Control Applications
   - Cooling Control Applications

6. Plumbing System Control Devices and Applications
   - Plumbing Systems
   - Water Supply
   - Plumbing System Control Devices
   - Plumbing System Control Applications

Class Options:
Building Automation for
Facilities Maintenance 2
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