

Building Management Systems

Leverage the power of integration to simplify
your building management

Building Management System

نظام إدارة المباني

نظام ادارة المباني اصبح من الضرورات المعرفية للمهندسين العاملين في قطاع الانشاءات وادارة المنشآت وهو لا يقتصر على فرع هندسي دون الاخر اذ يحتوي على معلومات من اختصاصات هندسية متعددة ك الكهرباء والميكانيكا والالكترونيات والتحكم والاتصالات والكمبيوتر فبذلك يمكن ان نسميه بواسع المعلومات ولكن ليس بالتعقيد الذي يبدو عليه كما انه يحقق مردود مادي جيد للعاملين به

عدد الساعات	الدورة
20 ساعة	نظام إدارة المباني

Course outline :

1- Introduction (2 Hours)

1. Course Plane and Contents.
2. Building Management System Introduction.
3. Building Management System Contents.

2- Controllers and Supervisory Controllers (2 Hours)

1. Stand Alone DDC Controllers.
2. Communicating DDC Controllers.
3. Supervisory Controllers.
4. BMS PC Software Interface.

3- Sensors, Signals & Control Points (2 Hours)

1. Sensors and Transducers Types.
2. Switches and Detectors Types.
3. Analogue and Digital Signals.
4. Controls Points Types.

4- Water Side 1 (Air Cooled System) (2 Hours)

1. Chilled water System Contents.
2. Chillers Controls.
3. Primary Chilled water pumps Controls.
4. Secondary Chilled water pumps Controls.

5- Water Side 2 (Water Cooled System) (2 Hours)

1. Condensed water System Contents.
2. Cooling Towers Controls.
3. Condensed water pumps Controls.
4. Difference between 2-way and 3-way Systems.

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7- Control Valves (2 Hours)

1. Valve Types.
2. Valve Selection.
3. Valve Authority.
4. Valve Controllability.

8- Air side 1 (AHU & Fans Controls) (2 Hours)

1. Total Fresh Air AHU Control.
2. Return Air AHU Control.
3. Circulating Air AHU Control.
4. Fans Types and Controls.

9- Air side 2 (FCU & VAV Control Type) (2 Hours)

1. Connected to BMS FCU Controls.
2. Stand Alone FCU Controls.
3. VAV Box Controls.
4. VAV Box Applications.

6- Protocols And Interface (2 Hours)

1. Protocols Description.
2. Privet & Global Protocols.
3. Interface to Electrical and Mechanical Systems.
4. Interface to light Currant Systems.

10- Conclusion (2 Hours)

1. BMS Revision.
2. Small Project Design.

ENGO SOFT