Mechanical Services Explained

Agenda

DAY 1 - Heating

09:15      Arrival / coffee / tea

09:30 Session 1: Heating Heat Transfers in Buildings
- How heat is lost from buildings
- How to reduce energy use: calculation of building heat loss
- A brief review of the latest Building Regulations

11:00  Coffee / tea break (15 mins)

11:15 Session 2: Ventilation
- Increasing the importance of ventilation heat loss
- Fresh air requirements

13:00 Lunch (60 mins)

14:00 Session 3: Heating Systems
- A review of the advantages & disadvantages of the different types of heating system

15:15 Coffee / tea break (15 mins)

15:30 Session 4: Plant Sizing and Controls
- Energy Trends
- Boiler Sizing
- Effective & efficient controls & types of control system

16.00 – 16:30 Q & A

For more information about this course contact the training team:

training@cibse.org | cibse.org/training | +44 (0)20 8772 3660
Day 2 – Cooling and Air-Conditioning

09:15 Arrival / coffee / tea

9:30 Session 1: Cooling and Air Conditioning
- Heat Gains & Assessment of Cooling Loads
- How to calculate a cooling load
- How to reduce cooling & plant requirements

11:00 Coffee / tea break (15 mins)

11:15 Session 2: Air Conditioning Systems
- A review of the different a/c systems available & their relative merits
- Latest Developments

13:00 Lunch (60 mins)

14:00 Session 3: Plant & Equipment
- Types of equipment & their standards of use e.g. fans, filters, heat exchangers & humidifiers

14:15 Coffee / tea break (15 mins)

15:30 Session 4: Refrigeration
- Understanding how refrigeration works
- The refrigeration cycle
- plant & equipment
- the issues associated with refrigeration systems

16.00 – 16:30 Q & A

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Day 3 – Water Services

09:15   Arrival / coffee / tea

9:30   Session 1: Water Services
       • Hot & Cold-Water Services: Explanation of different water service systems including current developments.

11:00  Coffee / tea break (15 mins)

11:15  Session 2: Legionnaires Disease
       • Explanation of Legionnaires Disease
       • consideration of its wider impact on Building Services Engineering
       • professional responsibilities

13:00  Lunch (60 mins)

14:00  Session 3: Drainage
       • A brief overview of the principles of drainage systems above & below ground and their design

15:15  Coffee / tea break (15 mins)

15:30  Session 4: Building Regulations
       • The course concludes with a review of the significant impact of the latest Building Regulations

16.00 – 16:30   Q & A

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