Mechanical Services Explained

Agenda

DAY 1 - Heating

10:00 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

Session 2: Ventilation

- Increasing the importance of ventilation heat loss
- Fresh air requirements

13:30 Lunch (30 mins)

14:00 Session 3: Heating Systems

- A review of the advantages & disadvantages of the different types of heating system

Session 4: Plant Sizing and Controls

- Energy Trends
- Boiler Sizing
- Effective & efficient controls & types of control system

Q & A

16:00 End of Day One

For more information about this course contact the training team:

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Day 2 – Cooling and Air-Conditioning

10:00  Session 1: Cooling and Air Conditioning
- Heat Gains & Assessment of Cooling Loads
- How to calculate a cooling load
- How to reduce cooling & plant requirements

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

13:30  Lunch (30 mins)

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

Q & A

16.00  End of Day Two

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Day 3 – Water Services

10:00  Session 1: Refrigeration

- Understanding how refrigeration works
- The refrigeration cycle
- plant & equipment
- the issues associated with refrigeration systems

Session 2: Water Services

- Hot & Cold-Water Services: Explanation of different water service systems including current developments.

Session 3: Legionnaires Disease

- Explanation of Legionnaires Disease
- consideration of its wider impact on Building Services Engineering
- professional responsibilities

13:30  Lunch (30 mins)

14:00  Session 4: Drainage

- A brief overview of the principles of drainage systems above & below ground and their design

Session 5: Building Regulations

- The course concludes with a review of the significant impact of the latest Building Regulations

Q & A

16.00  End of Day Three

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