



Heat Pumps

A range of certified courses on the design & installation of air-source and ground source heat pumps will be available from May 2007

Installer Course - 5 Days

What is a heat pump

How do they work

Heat Pump Anatomy

Coefficient of Performance (CoP)

Types of heat pump

- Ground Source

- Air Source

- Water Source

Applications

- New Build

- Retro-fit

- Non-domestic

System alternatives

Pre-installation considerations

- Noise levels

- Location Considerations

- Mounting

- Condensate Discharge

- Ducting and Rain Guards

Installation methods

Heating connections

Hydraulic connections

Electrical connections

Controller circuits and connection

- Controller layout

- Controller electrical connections

- Programming the controller

Set-up and commissioning

Fault Diagnosis

Entry Requirements: None

Cost per person: £995.00 plus VAT.



Heat Pumps

Design Course - 5 days

Design fundamentals and heat pump selection

Building Suitability

Matching the Heat pump to the building

Heat loss calculation

Heat pump selection

Heat Pump sizing

Heat distribution systems

Underfloor heating

Radiators

Domestic Hot Water

DHW Cylinder Selection

Buffer Tanks

Hydraulic System Design

Single Heat Circuit - Differential Pressure

Single Heating Circuit - without pressure differential

Single Heating Circuit - without pressure differential and DHW

Two Heating Circuits - without pressure differential and DHW

Buffer Tanks / Immersion Heaters

DHW Cylinders

Entry Requirements: None

Cost per person: £995.00 plus VAT

Or £1800 plus VAT if you do both courses.

The course costs include examination entry fees, a choice of meals from our lunch menu and refreshments throughout the day.

Dates: Installer course - 19-23 March, 16-20 April, 14-18 May, 11-15 June, 9-13 July

Design course - 23-27 April, 21-25 May, 18-22 June, 16-20 July