

# Technical Bulletin

Number	063a
Subject	Ecodan Accredited Installer
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*Correct at time of writing*

This document **does not** refer to MCS (Microgeneration Certification Scheme).



In order to become an Ecodan accredited installer, potential partners are required to demonstrate that their installation / maintenance engineers have obtained a number of qualifications.

This is to ensure that Mitsubishi Electric uphold high standards of professionalism throughout the design and application stage of air to water heat pumps.

Logicool fully support this and at present are working with potential training providers to allow us to provide all these qualifications as a package. This will be launched in Spring 2012.

Presently, Mitsubishi Electric require the following qualifications prior to any ecodan accreditation being awarded:

- Unvented Hot Water
- Energy Efficiency
- Ecodan Level 1
- Ecodan Level 2

## **Unvented Hot Water Certificate:**

It is a requirement under G3 of the building regulations that anyone installing, commissioning or maintaining an unvented hot water storage vessel (a component of Ecodan) is competent to do so.

Mitsubishi Electric accepts any Unvented Hot Water Certification including the following:

- Logic
- City & Guilds 6019
- NIC EIC
- CITB Construction Skills
- ERS - UDHW
- BPEC & Building Engineering Services (CITB)
- Gas Safe (if UVHW detailed on Card)

## **City & Guilds 6084** **(Certificate in Energy Efficiency in Domestic Heating).**

This course has been designed to enable plumbing & heating engineers to confirm their competence in:

- The design, installation, service & maintenance of unvented hot water storage systems.
- The understanding of central heating & hot water storage systems design & installation issues as they relate to energy conservation measures as detailed under part L1 of the building regulations.

Mitsubishi Electric will also accept Energy Efficiency in Domestic Heating Certificates from the following:

- Gas Safe card (copy of front and back required)
- Logic - Energy Efficiency Domestic Heating
- OFTEC/BPEC -OFT105/105E ( Domestic Oil Fired Installation and Energy & Efficiency)
- NIC
- BPEC & Building Engineering Services (CITB)
- BPEC - Certificate for Domestic Heating (England & Wales)
- Construction Skills - Building Engineering Services - Energy & Efficiency
- Construction Skills - Building Engineering Services - CCN1 Dom Natural Gas Safety
- NVQ Level 3 (must also hold level 2 and CCN1)

*Also desirable are City & Guilds 6089, NVQ levels 2 & 3 Plumbing.*

Mitsubishi Electric will expect to review certificates of the engineers that are attending the training course in order to validate their Accredited Ecodan Installer application.

Please note that if your business does not employ an installation team who holds the required qualifications, but you sub-contract to an installer who does hold them, Mitsubishi will still consider awarding your company the status of "Accredited Ecodan Installer" on condition that all Ecodan installations are sub-contracted to the installer who holds the appropriate qualifications and who have attended the appropriate Mitsubishi Electric training courses.

A number of application forms including engineer profiles will need to be completed also.

Please contact Logicool for more details including access to more detailed training information and forms.

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Typical training providers local to Logicool sales regions are as follows:

Training Provider	Contact	Course Provider	Course Title	Cost (at time of writing)
Leicester College	0116 224 2240	BPEC	Unvented Hot Water Systems	£170.00
Stephenson College, Coalville	01530 278626	BPEC	Unvented Hot Water	£184.00
Stephenson College, Coalville	01530 278626	BPEC	Energy Efficiency	£152.00
Derby College	01332 387468	BPEC	Energy Efficiency	£150.00 + £40.00
Derby College	01332 387468	BPEC	Unvented Hot Water	£160.00 + £40.00
South West Peninsular Training Ltd	01458 253493	Logic & C & G	Energy Efficiency	£160.00 plus V.A.T
South West Peninsular Training Ltd	01458 253493	U.K. Certification	Unvented Hot Water Systems	£210.00 plus V.A.T.
Steve Willis Training, Burgess Hill	01444 870860	To be confirmed	Unvented Hot Water	£190.00 plus VAT
Steve Willis Training, Portsmouth	01444 870860	To be confirmed	Energy Efficiency	£170.00 plus VAT
Highbury College, Portsmouth	02392 328733	To be confirmed	Unvented Hot Water Systems	
Highbury College, Portsmouth	02392 328733	To be confirmed	Energy Efficiency	
Cherwell Valley College	01865 550550	To be confirmed	Energy Efficiency	£316.00
Amersham & Wycombe College	01494 735555	To be confirmed	Unvented Hot Water Systems	£230.00

## **Ecodan Courses**

Once all of the above accreditation has been obtained, installers can now attend Mitsubishi Ecodan courses with a view to becoming an AEI (Accredited Ecodan Installer).

These courses are held at Manchester, Hatfield, Birmingham and Livingston.

There are three courses and two of these are required to achieve AEI status.

### **Ecodan Design and Application Part 1.**

This course is for heating/building services engineers who will specify Ecodan air source heat pumps for incorporation in new or retrofit applications.

In order for a company to gain accreditation to the Domestic Heating Partner Programme and become a member, at least one of their engineers must pass this course. *The engineer passing this course does not need the Unvented Hot Water or Energy Efficiency certification. In this instance the Company will need to issue a covering letter stating that the Level 1 attendee will not be installing the equipment and an Engineer Profile for the engineer or sub-contractor attending Level 2 will also be required.*

The course duration is one day, costs £100.00 plus VAT and covers the following elements:

- The Partner Programme – requirements and benefits
- Environmental and legal implications
- Heat pump technology – how the system works
- Coefficients of performance COPs
- The Ecodan equipment range
- Ecodan controls
- Basic heat loss calculations
- System sizing
- Equipment selection – heat emitters, pumps, hot water cylinders etc.
- Weather compensation
- Installation considerations
- Annual maintenance

This course includes a basic design project

## **Ecodan Installation & Commissioning Part 2**

This course is for heating engineers, plumbers and electricians who will be involved in installing and commissioning Ecodan air source heat pumps.

*The engineer passing this course MUST ALSO HAVE the Unvented Hot Water and Energy Efficiency certification.*

In order for a company to gain accreditation to the Domestic Heating Partner Programme and become a member, their installation engineers must pass this course.

The course duration is one day, costs £100.00 plus VAT and covers the following elements:

- F-gas requirements, Gas safe etc.
- Ecodan /S-plan integration
- Installation requirements – electrical, plumbing, location etc.
- Commissioning
- Water system requirements
- Programming the controls
- System monitoring
- Commissioning faults – common faults and probable causes

Practical sessions will be used to reinforce and practice the last 3 items.

## **Ecodan Service & Fault Finding Part 3**

This course is for heating engineers, plumbers and electricians who will be involved in servicing and fault finding Ecodan air source heat pumps.

It is a requirement for attendance on this course that the engineer has previously attended the Ecodan installation and commissioning course.

The course duration is one day, costs £100.00 plus VAT and covers the following elements:

- Legislation – F-gas requirements, Gas safe etc.
- How the heat pump works – the vapour compression cycle, upgrade of “free heat”, COPs etc
- Typical running conditions
- Accessing information – interrogation of the system using the remote control and Ecodan LED display
- Basic fault finding – understanding fault codes and their remedies
- Testing to assist diagnosis
- System maintenance – coil cleaning, system checks etc.
- When to call for a site service visit

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Practical sessions will be used to reinforce and practice where appropriate.