

What are Skills bootcamps?

Skills Bootcamps are 60 hour (8 day) intensive upskilling programmes, which support the diversification of skills to help companies and the self-employed to close skills gaps, increase their productivity and ultimately profitability, through winning more contracts of work. Modules are split up around work schedules so that candidates can remain economically active whilst upskilling.

This programme is funded by the Department for Work and Pensions (DWP).

The 2-day **BPEC accredited Energy Efficiency** element of this Skills Bootcamp is designed to give **plumbers, electricians and heating engineers** the knowledge and practical skills needed to work effectively in low-carbon homes, comply with evolving Building Regulations, and support the UK's net zero agenda. It provides a strong foundation that complements their existing trade qualifications while enabling them to install, commission and advise on energy-efficient systems.

These first two days of training are followed by a 1-day **NOCN-accredited Understanding Damp and Mould in Domestic Dwellings** module, which further equips engineers with the knowledge to recognise the early signs of damp and mould and recommend appropriate interventions.

Days 4-6 cover **NICEIC accredited Domestic Ventilation Systems**. Candidates will learn how to design, install, test, commission, and hand over residential ventilation systems in compliance with UK Building Regulations. Upon successful completion, delegates will have the knowledge and practical experience to meet current National Occupational

Standards, manufacturers' requirements, and comply with Approved Document Part F of the Building Regulations for England and Wales. This module satisfies the minimum technical competency requirements to join a Competent Persons Scheme across the UK.

On days 7 & 8 a visiting technical specialist from EnviroVent Ltd will provide in-depth training on ventilation systems design, and candidates will utilise their latest software to produce detailed ventilation designs with 3D views.

Day 1

Energy Efficiency

The agenda for this day, as follows:

- Introduction to Approved Document Part L
- The Future Homes Standard 2026 and the transition to low-carbon homes
- The relationship between Approved Documents Part L, Part F and Part O
- Understanding heat loss and ventilation heat losses
- Reducing carbon emissions through improved building performance
- Energy Efficiency measures – working in harmony with ventilation.

Day 2

Energy Efficiency

The agenda for this day, as follows:

- Principles of low temperature heating systems
- Radiator sizing for low temperature heating
- Underfloor heating system design principles
- Weather compensation and heating controls
- Introduction to Air Source Heat Pumps
- Domestic hot water cylinder sizing and selection
- System design calculations
- Maximising system efficiency and performance
- Cylinder calculations – hot water requirements.

Day 3

Mould and Damp Awareness

The agenda for this day, as follows:

- Causes of damp, condensation and mould
- Types of damp and identifying root causes
- Ventilation, heating and moisture management
- Health impacts of damp and mould
- Awaab's Law and landlord responsibilities
- Property assessment and risk identification
- Remedial measures and prevention strategies
- Best practice for reporting and customer advice
- Improving indoor air quality and healthy homes

Day 4

Domestic Ventilation Systems

The agenda for this day, as follows:

- Principles of domestic ventilation
- Understanding the need for ventilation
- Calculating the requirements for individual dwellings
- Importance of indoor Air Quality (IAQ)
- Compliance with Approved Document Part F
- Ventilation strategies and system selection
- Energy efficiency and airtight dwellings



Day 5

Domestic Ventilation Systems

The agenda for this day, as follows:

- Types of domestic ventilation systems (IEV, PIV, dMEV, cMEV and MVHR)
- System components and ductwork design
- Open flue appliances and safety considerations
- Installation requirements and best practice

Day 6

Domestic Ventilation Systems

The agenda for this day, as follows:

- PAS 2035 and retrofit ventilation requirements
- Installation of domestic ventilation systems
- Inspection, testing, and commissioning
- Measuring and balancing airflows
- Documentation and customer handover
- Practical installation and commissioning assessment

Day 7

Ventilation Design

The agenda for this day, as follows:

- Why Ventilate?
- Infiltration and Permeability
- Regulations in Brief
- Ventilation Basics
- Natural Ventilation
- Mechanical Extract Ventilation

Day 8

Ventilation Design

The agenda for this day, as follows:

- Mechanical Ventilation with Heat Recovery
- System Curves
- Performance Curves
- Approved Document B
- Design Spec- Best Practice
- Passivhaus
- Acoustics
- Test, Commission & Hand over



Haroon Hayat

Technical Tutor with over 10 years of teaching experience, working in the Construction and Retrofit industry, specializing in hands-on installations of Energy Efficiency Measures and compliance. Passionate about delivering industry specialist, dynamic learning.



John McGregor

Technical Tutor specialised in Building Services Engineering with experience in Healthcare, Education and high-end residential projects, with particular focus on Ventilation, Underfloor Heating and Low Temperature Systems.



Testimonials



Berkshire Insulation

It was an excellent opportunity for proper education. I completed the Domestic Ventilation course and gained valuable knowledge, including many concepts that were completely new to me. The course is beneficial for anyone involved in building management. John was an outstanding instructor with extensive industry experience, and I truly appreciate him and the Green Skills Academy for providing such a rewarding learning experience.



HK Green Energy

I completed the Damp, Mould and Ventilation course, and the facilities and knowledge of the tutors were excellent. John McGregor was a fantastic tutor who explained everything clearly, provided excellent guidance throughout, and shared a wealth of practical industry experience.

For more information speak to our technical team.

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To register,
SCAN Code



Skills Bootcamp in Domestic Ventilation Systems

