

Domestic Retrofit Maps

How to use these maps

These maps show different job paths in the retrofit sector. They also show training for people who are new to this work or want to learn more about domestic retrofitting. Each job sector is divided into areas for skills training.

A key shows which courses are available for people living in the West of England. These maps are part of a group of Skills Connect resources, which include:

- [Retrofit Careers Insights](#)
- [Speak to an Advisor](#)
- [A Training Directory](#)

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Construction and Trades Pathway

Multi Skills Route

(combined training in areas such as bricklaying, plastering, carpentry etc)

Entry Level	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6-7
Entry: SWAP Construction Length: 2 weeks Eligibility: None	Level 1 BTEC Certificate in Construction Length: 10 days Eligibility: None	Level 2 – BTEC Certificate in Construction (trade focus) Length: 8 weeks Eligibility: 19+ years old and 4x GCSEs (Grade 3+) including Maths and English	T Level 3 in following: - Design, Surveying and Planning for Construction - Engineering, Manufacturing, Processing and Control - Maintenance, Installation and Repair for Engineering and Manufacturing Length: 2 years Eligibility: 16-18 year olds, 4-5x GCSEs (grades 4+) including English and Maths	Level 4 Apprenticeship – Construction Site Supervision Length: 3-4 years Eligibility: level 2 (GCSE 4/C) in English and Maths or a relevant level 2 apprenticeship	Level 5 HNC/HND Construction and Built Environment Length: 1 year Eligibility: varies (UCAS points)	Level 6 NVQ Diploma in Construction Site Management Length: 1 year Eligibility: varies (UCAS points)
Entry: Bootcamps (various e.g. Plant Bootcamp) Length: Weeks Eligibility: 19+	Level 1 Diploma in Construction Skills Length: 1 year Eligibility: GCSE (grade 1+) in English and Maths.	Level 2 - Construction Skills Length: 1 year Eligibility: 4 x GCSEs (Grade 3+) including Maths and English	T Level 3 in Building Services Engineering for Construction Length: 2 years Eligibility: 16-18 year olds, 4-5x GCSEs (grades 4+) including English and Maths	Level 4 HNC Construction Site Management Length: 1 year Eligibility: varies (UCAS points or level 2 qualifications grades 4/C		Level 6 Apprenticeship – Chartered Surveyor Length: 5 years Eligibility: 2x A levels or a HNC in Construction.
Entry: Foundation Construction Skills Length: 1 year Eligibility: GCSE English and Maths (Grade 2+)	Level 1 - 'She Builds' Construction Skills Length: 1 year (part-time) Eligibility: For female learners of all ages.	Level 2 – Property Maintenance Operative Length: 15 months Eligibility: level 2 English and Maths (GCSE 4/C)		Level 4 HNC Quantity Surveying BTEC Length: 1 year Eligibility: varies (UCAS points or level 2 qualifications grades 4/C		Level 7 Apprenticeship – Chartered Town Planner Length: 4 years Eligibility: Graduates, or relevant level 3 and experience.
	Level 1 – Construction Multi Trades Length: 1 year Eligibility: 16-18 years old. 3x GCSEs (Grade 2) including Maths and English		Level 3 – Facilities Management Supervisor Length: unknown Eligibility: level 2 (GCSE 4/C) in English and Maths	Level 4 Apprenticeship Construction Management Site Supervision Length: 1 year Eligibility: GCSE English Language grade C/4 and GCSE Maths grade B/5.		
			Level 3 Apprenticeship Building Services Engineering Technician Length: 3 years Eligibility: Level 2 (grade 4+) in English and Maths	Level 4 Apprenticeship Building Services Engineering Senior Technician Length: 1 year Eligibility: GCSE English Language grade C/4 and GCSE Maths grade B/5.		
			Level 3 BTEC Diploma in Building Services Engineering Length: 3 years Eligibility: Level 3 Building Services or other relevant Level 3 or industry experience.			

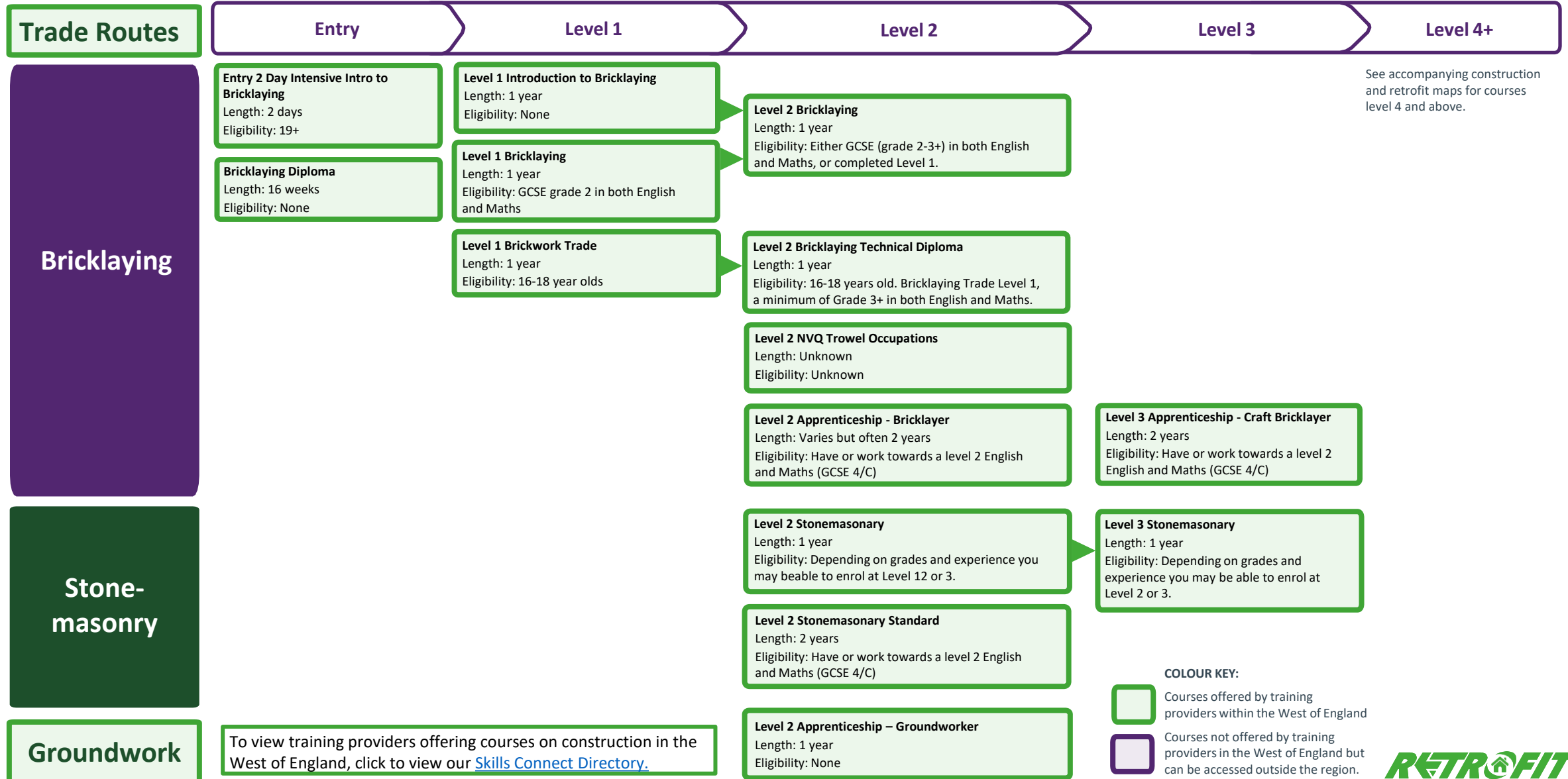
To view training providers offering courses on construction in the West of England, click to view our [Skills Connect Directory](#).

COLOUR KEY:

Courses offered by training providers within the West of England

Courses not offered by training providers in the West of England but can be accessed outside the region.

Construction and Trades Pathway



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Construction and Trades Pathway

Trade Routes

Entry

Level 1

Level 2

Level 3

Level 4+

Carpentry and Joinery

Entry: 2 Day Intensive Intro to Carpentry

Length: 2 days
Eligibility: None

Entry: Carpentry Construction Skills Certificate

Length: Weeks
Eligibility: None

Carpentry Taster

Length: 6 weeks
Eligibility: 19+

Level 1 Carpentry and Joinery Diploma

Length: 1 year
Eligibility: GCSE grade 3 in both English and Maths

Level 1 Carpentry Trade

Length: 1 year
Eligibility: 16-18 years old

Level 2 Site Carpentry

Length: 1 year
Eligibility: GCSE grades 3-4 in both English and Maths. Ideally completed Level 1.

Level 2 Site Carpentry Technical Diploma

Length: 1 year
Eligibility: 16-18 years old. Carpentry Trade level 1, and Grade 3 or above in both English and maths.

Level 2 Apprenticeship - Site Carpentry

Length: Varies (15months – 2 years)
Eligibility: Either a qualifying Level 1 qualification or 5x GCSEs (grade 2+ and two at grade 4+)

Level 2 Apprenticeship in Carpentry & Joinery

Length: 2 years
Eligibility: Have or work towards a Level 1 in maths and English

Level 3 Apprenticeship - Site Carpentry

Length: 15months
Eligibility: Level 2 Carpentry and Joinery Apprenticeship

Level 3 Apprenticeships Craft Carpentry and Joinery

Length: 2 years
Eligibility: Completed Level 2 Apprenticeship and GCSE grade 2 in both English and Maths.

See accompanying construction and retrofit maps for courses level 4 and above.

Plastering

Entry 2 Day Intensive Intro to Plastering

Length: 2 days
Eligibility: None

Plastering Diploma

Length: 16 weeks
Eligibility: None

Level 1 Plastering Trade

Length: 1 year
Eligibility: 16-18

Level 1 Plastering

Length: 1 year
Eligibility: GCSE grade 2 in both English and Maths.

Plastering Technical

Length: 1 year
Eligibility: 16-18 years old. Plastering Trade Level 1 and a Grade 3+ in both English and Maths

Level 2 Plastering

Length: 1 year
Eligibility: GCSE grade 2-3+ in both English and Maths. Ideally level 1 or demonstrable knowledge.

Level 2 Apprenticeship - Plasterer

Length: Unknown
Eligibility: Unknown

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Construction and Trades Pathways

Trade Routes

Scaffolding

Welding

Plumbing and Heating

Electrical

Level 1

Level 2

Level 3+

Level 1 MAG Welding Skills Award

Length: 8 weeks
Eligibility: none

Level 1 MMA Welding Skills Award

Length: Unknown
Eligibility: Unknown

Level 1 TIG Welding Skills Award

Length: Unknown
Eligibility: Unknown

Level 2 Apprenticeship – Scaffolder

Length: 18 months
Eligibility: A minimum of five GCSEs at grade 9-2 with at least two at grade 4, or a qualifying Level 1 qualification.

Level 2 MAG Welding Skills Award

Length: Unknown
Eligibility: Unknown

Level 2 MMA Welding Skills Award

Length: Unknown
Eligibility: Unknown

Level 2 TIG Welding Skills Award

Length: Unknown
Eligibility: Unknown

Level 2 TIG Aluminium Welding Skills Award

Length: Unknown
Eligibility: Unknown

Level 2 Oxy-Acetylene Welding Skills Award

Length: Unknown
Eligibility: Unknown

Level 2 Apprenticeship – General Welder

Length: 18 months
Eligibility: To have or work towards a Level 2 in English and Maths

See accompanying construction and retrofit maps for courses level 3 and above.

COLOUR KEY:



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See separate Retrofit maps for full details.

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To view training providers offering courses on construction in the West of England, click to view our [Skills Connect Directory](#).

Insulation & Building Treatment

Entry	Level 2		Level 3
Cold Roof Insulation Length: Self-paced Online (hours) Eligibility: None	Level 2 Award in Introduction to External Wall Insulation Length: Self paced (online) Eligibility: None	Level 2 Award in recognising damp, mould, and condensation in buildings Length: unknown Eligibility: unknown	Level 3 NVQ Thermal Insulation Length: unknown Eligibility: unknown
Warm Roof Insulation Length: Self-paced Online (hours) Eligibility: None	Level 2 NVQ Thermal Insulation in either - Fabricate Protection or Fit Protection Length: unknown Eligibility: unknown	Level 2 NVQ Internal Insulation Length: unknown Eligibility: unknown	
Underfloor Insulation Length: Self-paced Online (hours) Eligibility: None	Level 2 NVQ Cold Roof Insulation Length: unknown Eligibility: unknown	Level 2 NVQ Cavity Wall Insulation Length: unknown Eligibility: unknown	
Introduction to Insulation Length: Self-paced Online (hours) Eligibility: None	Level 2 NVQ Warm Roof Insulation Length: unknown Eligibility: unknown	Level 2 NVQ in Insulation and Building Treatments Length: 10 hours (online) Eligibility: Level 2 qualification in fitting relevant measures.	
Working Safely in Lofts Length: Self-paced Online (hours) Eligibility: None			
Draught Proofing Length: Self-paced Online (hours) Eligibility: None			

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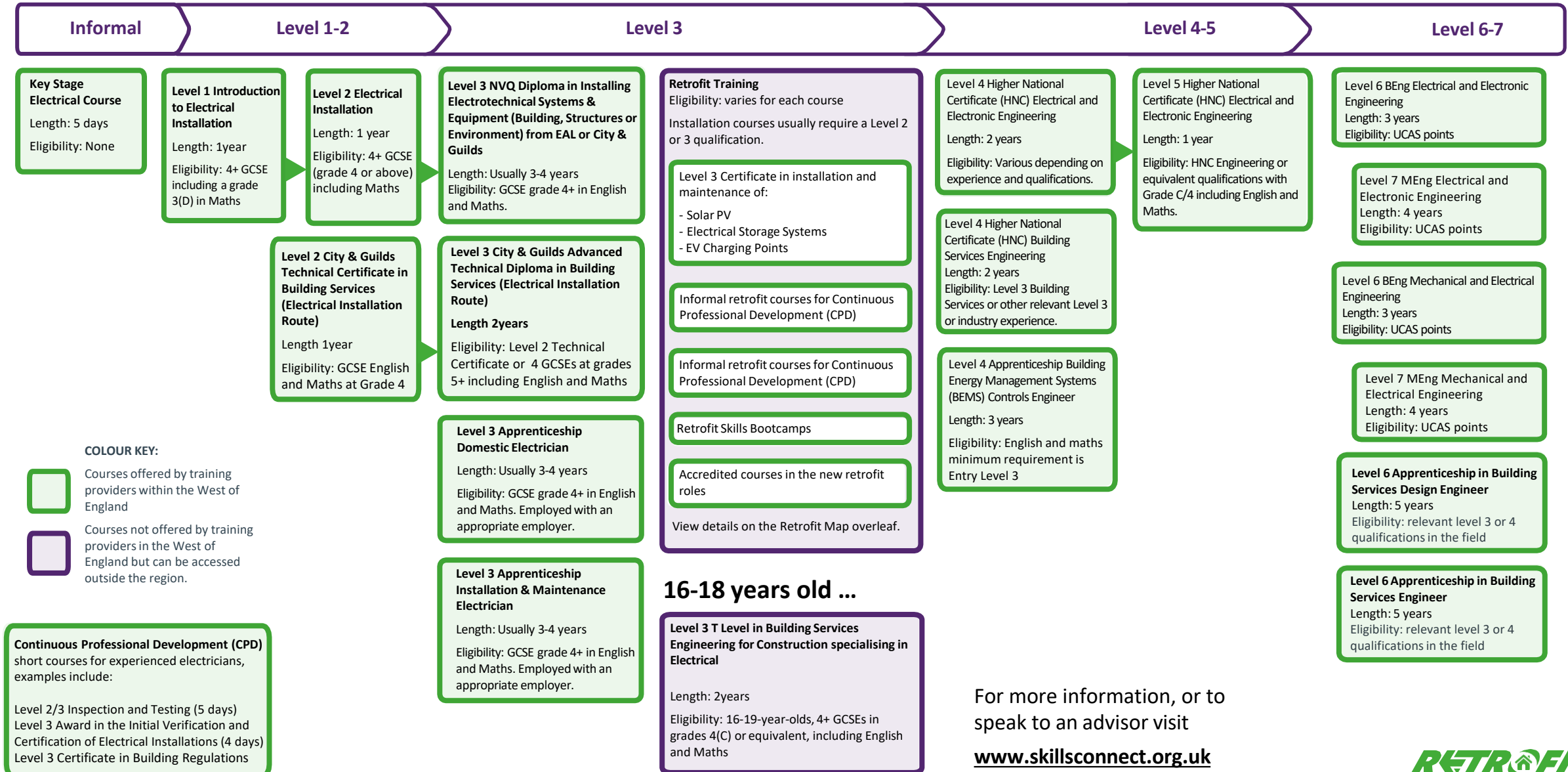
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To view training providers offering courses on insulation in the West of England, click to view our [Skills Connect Directory](#).

Electrotechnical Pathway

HOW TO GUIDE

This page demonstrates the different types of training available at varying levels within the electrical career pathway. The next pages demonstrate the opportunities to train in different areas of retrofit for people working in the electrical industry.



For more information, or to speak to an advisor visit
www.skillsconnect.org.uk

Domestic Retrofit (Electrotechnical) Pathway

These are some (not all) of the courses available for professionals to train in areas of domestic retrofit.

Solar PV

Informal

Solar Photovoltaic Maintenance

Length: 2 days
Eligibility: No formal requirements, recommended to have qualification in inspection and testing, and current edition of wiring regulations.

Level 3

Level 3 LCL Award in Installation and Maintenance of Small Scale Solar Photovoltaic Systems

Length: 3 days
Eligibility: Level 3 Award Requirements for Electrical Installations plus Level 3 Award in the Initial Verification & Certification of Electrical Installations (or combined award including Periodic Inspection & Testing)

Level 3 LCL Award in Small Scale Solar Photovoltaic Systems and Electrical Energy Storage Systems

Length: 5 days
Eligibility: Qualified electrician.

Level 3 BPEC Award in Solar Photovoltaic Systems

Length: 3 days
Eligibility: NVQ in electrical installation or earlier equivalent certification.

Level 3 C&G Award in the Installation and Maintenance of Small Scale Solar Photovoltaic Systems

Length: 1 year part-time
Eligibility: Qualified or experienced in a relevant trade.

Level 3 EAL Award in the Installation of Small Scale Solar Photovoltaic Systems

Length: 4-5 days
Eligibility: good knowledge of the latest edition of BS7671, of inspection, testing and certification of electrical installations

Level 7

Level 7 in Solar Industry Leader Programme

Length: 18months
Eligibility: Working in a leadership role within a solar company

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To view training providers offering courses on solar PV in the West of England, click to view our [Skills Connect Directory](#).

Energy Storage

Informal

Electrical Energy Storage Systems Fundamentals (online)

Length: 1 day
Eligibility: Basic understanding of electrical installation principles.

Level 3

Level 3 BPEC Award in the Design and Installation and Commissioning of Electrical Energy Storage Systems

Length: 2.5 days
Eligibility: Level 3 in relevant electrotechnical qualification plus ECS Gold card, JIB Electrician or Approved Electrician Card

Level 3 C&G Award in the Design and Installation and Commissioning of Electrical Energy Storage Systems

Length: 3 days
Eligibility: Level 3 electrotechnical qualification.

Level 3 LCL Award: Design, Installation and Commissioning of Electrical Energy Storage Systems

Length: 3 days
Eligibility: Level 3 Award in the Requirements for Electrical Installations plus Level 3 Award in the Initial Verification and Certification of Electrical Installations (or a combined award including Periodic Inspection & Testing)

Level 3 EAL Award in the Design and Installation and Commissioning of Electrical Energy Storage Systems (EESS)

Length: 3.5 days
Eligibility: Level 3 Award in the Requirements for Electrical Installations plus Level 3 Award in the Initial Verification and Certification of Electrical Installations (or a combined award including Periodic Inspection & Testing)

To view training providers offering courses on energy storage in the West of England, click to view our [Skills Connect Directory](#).

Domestic Retrofit (Electrotechnical) Pathway

These are some (not all) of the courses available for professionals to train in areas of domestic retrofit.

Electric Vehicle Charging

Informal

Electric Vehicle Charging Installations Fundamentals (online)

Length: 1 day
Eligibility: No formal requirements.

Level 3

Level 3 C&G Award in the design and Installation of domestic and small commercial electric vehicle charging installation

Length: 2 days
Eligibility: Candidates need to be experienced in electrical installation practices, inspection and testing and certification of electrical installations.

Level 3 C&G Award in Domestic, Commercial & Industrial EV Charging Equipment Installation

Length: 2 days
Eligibility: Candidates need to be already experienced in electrical installation practices, inspection and testing and certification of electrical installations.

Level 3 EAL Award in the Requirements for the Installation of Electric Vehicle Charging Points

Length: 2 days
Eligibility: Competent electrician with relevant Level 3 qualification or ECS gold card

Level 3 EAL Award in the Requirements for the Installation of Electric Vehicle Charging Points

Length: 2 days
Eligibility: 18+ with experience of installing PVC and SWA cable and up to date knowledge of wiring regulations.

Level 3 LCL Award in the Installation and Commissioning of Electric Vehicle Charging Equipment in Domestic, Commercial and Industrial Locations

Length: 2 days
Eligibility: Competent electrician with relevant Level 3 qualification.

Level 3 EAL Award in the Installation of Electric Vehicle Charging Points

Length: 1 day
Eligibility: Qualified electrician.

Level 3 EAL Award Technical Specialist in the Installation of Electric Vehicle Charging Equipment

Length: 12 hours
Eligibility: Competent electrician with relevant Level 3 qualification.

Skills Bootcamp: Level 3 Electric Charging Point

Length: 60+ hours
Eligibility: 19+, practicing electrician with Level 3 qualification

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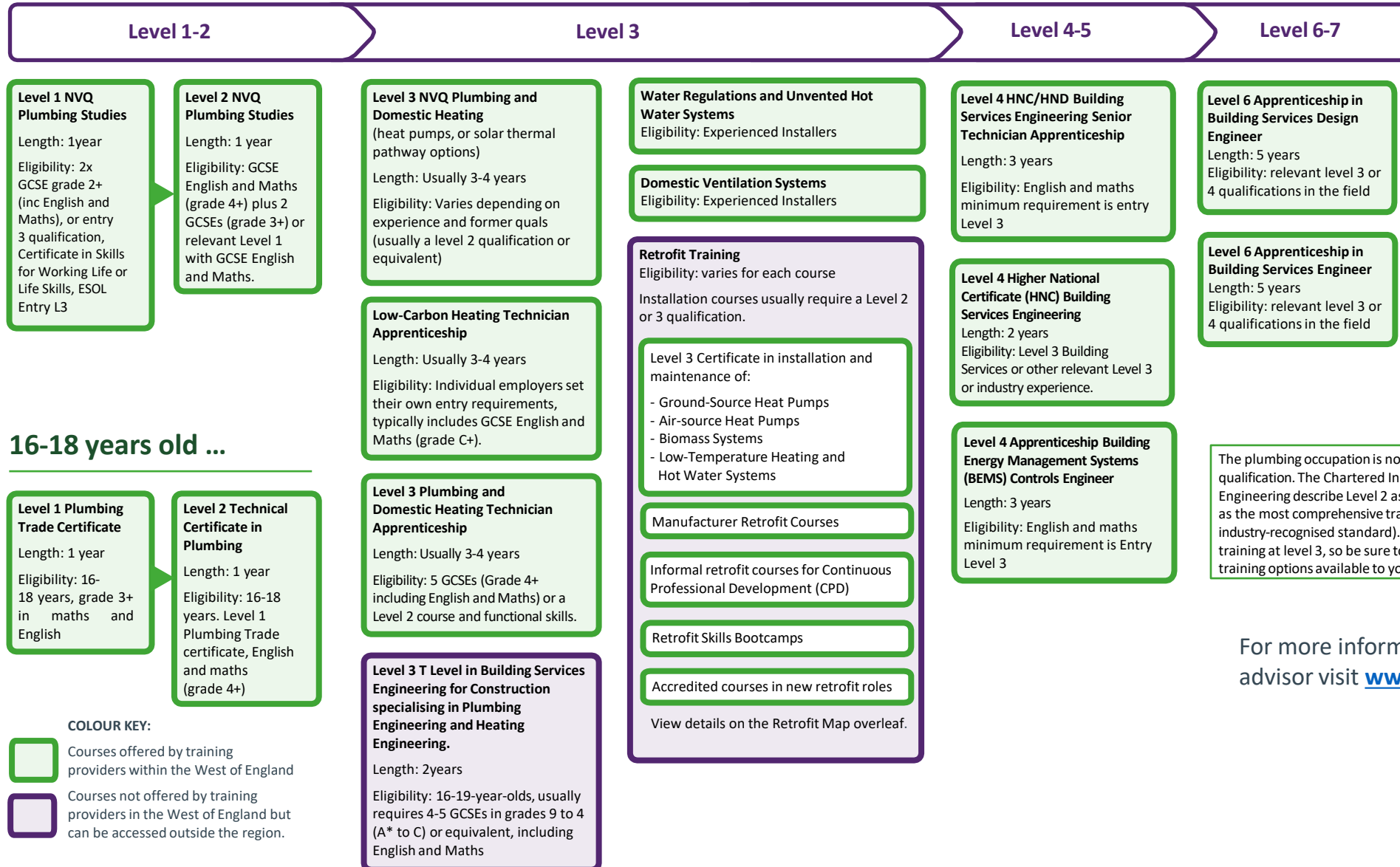


Courses offered by training providers within the West of England



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To view training providers offering courses on electric-vehicle charging in the West of England, click to view our [Skills Connect Directory](#).



For more information, or to speak to an advisor visit www.skillsconnect.org.uk

Domestic Retrofit (Plumbing and Heating) Pathway

These are some (not all) of the courses available for professionals to train in areas of domestic retrofit.

Heat Pumps

Informal

OFTEC Installation, commissioning and servicing of air source heat pumps

NICEIC Certificate in Air Source Heat Pumps

OFTEC Design of Heat Pump Systems

OFTEC Installation of Ground/Water Source Heat Pumps

Length: 2-4 days
Eligibility: Relevant qualification

Heat Pump Installer (Online CPD)

Length: 5 hours
Eligibility: For qualified professionals.

Manufacturers offer a variety of different training. Examples are provided by the [Heat Pump Association](#)

Level 1-2

BPEC Low Temperature Hot Water Heating Systems

Length: 2 days
Eligibility: Practicing plumbers and heating engineers who wish to design and install energy efficient low temperature hot water heating systems that use heat pumps as the heat source

To view training providers offering courses on heat pumps in the West of England, click to view our [Skills Connect Directory](#).

Level 3

LCL level 3 Award in the Installation and Maintenance of Heat Pump Systems (Non-refrigerant Circuits)

Length: 3 days
Eligibility: L2/3 in relevant qualification plus WRAS Water Regulations/Water Byelaws

L3 Apprenticeship: Refrigeration Air Conditioning and Heat Pump Engineering Technician

Length: 3 years
Eligibility: Individual employers set their own entry requirements, typically includes GCSE English and Maths (grade C+).

Level 3 in Air Source Heat Pump Installation

Length: 2 days
Eligibility: WRAS and UDHW qualifications.

Level 3 EAL Award in the Installation and Maintenance of Heat Pump Systems (Non-Refrigerant Circuits)

Length: 120 hours
Eligibility: Relevant Level 2 or 3 qualification.

Level 3 BPEC Award in Air Source Heat Pump Systems

Length: 5 evenings
Eligibility: For qualified plumbing and heating engineers.

BPEC Level 3 Award in the Installation and Maintenance of Heat Pump Systems

Length: 3 days
Eligibility: L2/3 relevant qualification or several years industry experience plus water regs and bylaws

Level 3 BPEC Domestic Ground Source Heat Pumps

Length: 3 days
Eligibility: Must have relevant NVQ or proven experience.

Level 3 C&G Award in the Installation and Maintenance of Heat Pump Systems (Non-Refrigerant Circuits)

Length: 1 year
Eligibility: Qualified professionals in the heating and plumbing industry.

Biomass

Informal

BPEC - Solid Biomass (NOS Mapped)

Length: 5 days
Eligibility: Either L2/3 in relevant qualification plus Water Regulations/ Water Byelaws, Energy Efficiency for Domestic Heating, Unvented hot water

Level 3

Level 3 BPEC Award in the installation and maintenance of solar thermal hot water

Length: 3 days
Eligibility: L2/3 in relevant qualification plus Water Regulations/Water Byelaws and Unvented Domestic Hot Water Storage Systems

Level 3 LCL Award in the Installation of Solar Thermal Hot Water System

Length: 3 days
Eligibility: L2/3 in relevant qualification, minimum 3 years experience, plus Water Regulations/Water Byelaws and Unvented Domestic Hot Water Storage Systems

Level 4

Level 4 HETAS Biomass Appliance Installer

Length: 5days
Eligibility: Either L2/3 in relevant qualification plus Water Regulations/Water Byelaws OR experienced workers can present portfolio of work for approval

Solar Thermal

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Domestic Retrofit (Professional) Pathway

These are some (not all) of the courses available for professionals to train in areas of domestic retrofit.

Further Domestic Retrofit

Informal	Level 1-2	Level 3	Level 4-5		
General Retrofit		Retrofit Advisor	Domestic / Retrofit Energy Assessor	Retrofit Designer	Retrofit Coordinator
Retrofit 101 (online) Length: 2 hours Eligibility: None and it's free	Level 2 Award Understanding Domestic Retrofit (online) Length: 30hours (self-paced) Eligibility: None	Level 3 Certificate in Domestic Retrofit Advice Length: 30 hours (online) Eligibility: 18+ years	Level 3 Award in Domestic Energy Assessment Length: Days-Weeks depending on the course Eligibility: No previous qualifications or experience required	Skills Bootcamp – L4 Award in Domestic Retrofit Assessment Length: Usually 60 hours across 10 weeks (online) Eligibility: Level 3 Domestic Energy Assessor qualification (if you do not have this already there are combined courses available).	Level 5 CarbonLite Retrofit Coordination (online) Length: 105 self-paced hours and 2 days live online tutoring. Eligibility: AECB membership, familiar with retrofit projects.
PAS 2030 Standard Awareness (online) Length: 2 days Eligibility: None	Level 2 Award Introduction to Domestic Renewable Low Carbon Technologies (online) Length: 1-2 days Eligibility: basic literacy and numeracy	Level 3 Certificate in Retrofit Length: 20 weeks Eligibility: None but interest in Retrofit Advice is valuable and relevant.	Level 3 Certificate for Retrofit Assessors Length: Days-Weeks depending on the course Eligibility: A Domestic Energy Assessment Qualification	Level 4 Award in Domestic Retrofit Assessment Length: 80 hours Eligibility: Level 3 Domestic Energy Assessment	L5 Diploma in Retrofit Coordination and Risk Management Length: 145hours self-paced (online/in-person) Eligibility: Usually 2years experience in built environment or a relevant level 3 qualification.
CarbonLite Retrofit Foundation Course (online) Length: 2 days Eligibility: None	Level 2 Retrofit Skills (mix of online and in-person) Length: Self-paced Eligibility: 1 year work experience in Construction				L5 Diploma in Retrofit Coordination and Risk Management Length: 103 hours across 13 weeks Eligibility: A level 3 qualification in a built environment
Domestic Retrofit (online) Length: 3 hours Eligibility: None	Level 2 Certificate in Retrofit Length: 20 weeks Eligibility: None but experience in Construction is helpful				
Retrofit Delivery (online) Length: 4 x 3 hour sessions Eligibility: Tailored for contractors, installers, coordinators, assessors and design professionals.	Level 2 Award for Green Ambassador within the Retrofit Sector (online) Length: 8-10 weeks Eligibility: Practical experience in the retrofit sector.				
Understanding Building Physics (online) Length: 10-12 hours across 5 weeks Eligibility: None	Level 2 C&G Award in Retrofit Length: 3 days part-time Eligibility: None			Level 4 Award in Assessing Domestic Dwellings for Retrofit Length: 80 hours Eligibility: Qualified Domestic Energy Assessor	
Understanding Non-Domestic Retrofit Length: 15 hours Eligibility: None					
Courses offered by training providers within the West of England Courses not offered by training providers in the West of England but can be accessed outside the region.					
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Professional Pathways into Retrofit

These are some (not all) of the courses available for professionals to train in areas of domestic retrofit.

Energy Efficiency

Level 1 Award in Energy Efficiency and Sustainability
Length: 3 weeks
Eligibility: None

Introduction to Domestic Energy Assessment (online)
Length: Self-paced
Eligibility: None

Level 2 LCL Award Certificate in the Principles of Metering for Renewable Heat Installations
Length: 1 day
Eligibility: None

Level 2 Apprenticeship in Dual Fuel Smart Meter Installer
Length: 14 months
Eligibility: GCSE English and Maths

Level 2 LCL Award Diploma in Smart Metering
Length: 1 year
Eligibility: Working for an energy supplier

Level 3 Apprenticeship in Smart Home Technician Metering
Length: 21 months
Eligibility: Relevant employment GCSE English and Maths

Level 3 Energy Efficiency (Part L) Training Course
Length: 1 day
Eligibility: Experienced installers and/or design engineers.

Level 3 ABBE Award in Domestic Energy Assessment (online)
Length: 5 days
Eligibility: None

Level 3 Certificate in Surveying and Calculation of Building Heat Loss
Length: 3 days
Eligibility: None

Level 3 Apprenticeship Smart Home Technician
Length: 1.5 years
Eligibility: GCSE English and Maths

Level 3 Certificate in Domestic on Construction Energy Assessment (online)
Length: 4 days
Eligibility: 18+

Level 3 C&G Certificate in Domestic Energy Assessment (online)
Length: 5 days
Eligibility: None

Level 3 Award in Energy Efficiency for Older and Traditional Buildings
Length: Usually 2 days (online)
Eligibility: Working within an energy assessment role

To view training providers offering courses on energy efficiency in the West of England, click to view our [Skills Connect Directory](#).

Level 1

Level 2

Level 3

Level 2 in Understanding Carbon Awareness and Energy Management
Length: 1 day
Eligibility: None

Level 3 in Energy Awareness (online)
Length: 20 hours self-paced
Eligibility: None

Level 1 Certificate in Energy Management Essentials
Length: 60 hours
Eligibility: GCSE English and Maths or equivalent and experience using Microsoft Excel

Level 2 Energy Management Professional
Length: 200 hours
Eligibility: 2+ years' relevant experience or completion of the Level 1 Certificate in Energy Management Essentials

Continuous Professional Development (CPD) short courses in energy efficiency/management include:

Metering Monitoring
Energy Auditing and Report Writing

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Energy Management