

# 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](#)

## Contents

<b>Section 1: Construction and Trade Pathways into Retrofit.....</b>	<b>Pages 2-8</b>
• <a href="#">Multi-skills trades</a> .....	<b>2</b>
• <a href="#">Bricklaying, stonemasonry, groundwork</a> .....	<b>3</b>
• <a href="#">Carpentry and joinery, plastering</a> .....	<b>4</b>
• <a href="#">Scaffolding, welding</a> .....	<b>5</b>
• <a href="#">Energy Efficiency and Energy Management</a> .....	<b>6</b>
• <a href="#">Further Domestic Retrofit</a> .....	<b>7</b>
• <a href="#">Insulation and Building Treatment</a> .....	<b>8</b>
<b>Section 2: Electrotechnical Pathways into Retrofit.....</b>	<b>Pages 9-12</b>
• <a href="#">Electrotechnical</a> .....	<b>9</b>
• <a href="#">Solar PV and energy storage</a> .....	<b>10</b>
• <a href="#">Electric vehicle charging</a> .....	<b>11</b>
• <a href="#">Further domestic retrofit</a> .....	<b>12</b>
<b>Section 3: Plumbing and Heating Pathways into Retrofit.....</b>	<b>Pages 13-15</b>
• <a href="#">Plumbing and heating</a> .....	<b>13</b>
• <a href="#">Heat pumps, biomass, solar thermal</a> .....	<b>14</b>
• <a href="#">Further domestic retrofit</a> .....	<b>15</b>

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

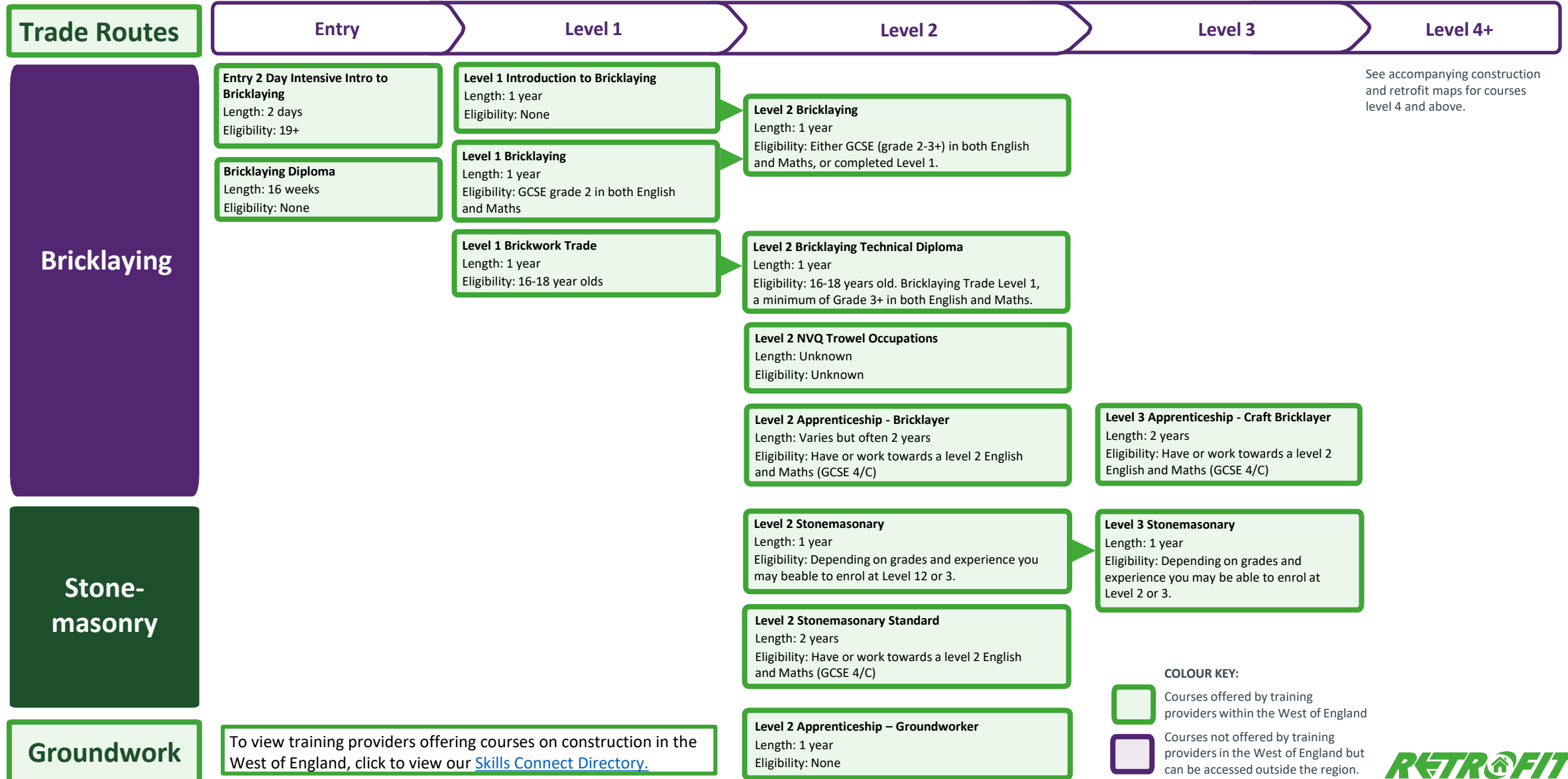
To view training providers offering courses on construction in the West of England, click to view our [Skills Connect Directory](#).

**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.

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See separate Retrofit maps for full details.

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## Construction and Trades Pathways into Retrofit

### Entry

**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

**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

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

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

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

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

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

**Level 3 C&G Certificate 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 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 2 in Understanding Carbon Awareness and Energy Management**  
Length: 1 day  
Eligibility: None

### Level 3

**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

## Energy Efficiency

## Energy Management

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## Domestic Retrofit (Construction) 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
<b>Retrofit 101 (online)</b> Length: 2 hours Eligibility: None and it's free	<b>Level 2 Award Understanding Domestic Retrofit (online)</b> Length: 30hours (self-paced) Eligibility: None	<b>Level 3 Certificate in Domestic Retrofit Advice</b> Length: 30 hours (online) Eligibility: 18+ years	<b>Skills Bootcamp – L4 Award in Domestic Retrofit Assessment</b> 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).
<b>PAS 2030 Standard Awareness (online)</b> Length: 2 days Eligibility: None	<b>Level 2 Award Introduction to Domestic Renewable Low Carbon Technologies (online)</b> Length: 1-2 days Eligibility: basic literacy and numeracy	<b>Level 3 Certificate in Retrofit</b> Length: 20 weeks Eligibility: None but interest in Retrofit Advice is valuable and relevant.	<b>Level 3 Award in Domestic Energy Assessment</b> Length: Days-Weeks depending on the course Eligibility: No previous qualifications or experience required
<b>CarbonLite Retrofit Foundation Course (online)</b> Length: 2 days Eligibility: None	<b>Level 2 Retrofit Skills (mix of online and in-person)</b> Length: Self-paced Eligibility: 1 year work experience in Construction	<b>Level 3 Certificate for Retrofit Assessors</b> Length: Days-Weeks depending on the course Eligibility: A Domestic Energy Assessment Qualification	<b>Level 4 Award in Domestic Retrofit Assessment</b> Length: 80 hours Eligibility: Level 3 Domestic Energy Assessment
<b>Domestic Retrofit (online)</b> Length: 3 hours Eligibility: None	<b>Level 2 Certificate in Retrofit</b> Length: 20 weeks Eligibility: None but experience in Construction is helpful		<b>Level 4 Award in Assessing Domestic Dwellings for Retrofit</b> Length: 80 hours Eligibility: Qualified Domestic Energy Assessor
<b>Retrofit Delivery (online)</b> Length: 4 x 3 hour sessions Eligibility: Tailored for contractors, installers, coordinators, assessors and design professionals.	<b>Level 2 Award for Green Ambassador within the Retrofit Sector (online)</b> Length: 8-10 weeks Eligibility: Practical experience in the retrofit sector.		<b>Level 4-5 Retrofit Designer Course</b> Length: 80 hours Eligibility: Either Qualified and practising as a Retrofit Coordinator OR Qualified in architecture, architectural technology, surveying or construction management with experience in using design software.
<b>Understanding Building Physics (online)</b> Length: 10-12 hours across 5 weeks Eligibility: None	<b>Level 2 C&amp;G Award in Retrofit</b> Length: 3 days part-time Eligibility: None		<b>Level 5 CarbonLite Retrofit Coordination (online)</b> Length: 105 self-paced hours and 2 days live online tutoring. Eligibility: AECB membership, familiar with retrofit projects.
<b>Understanding Non-Domestic Retrofit</b> Length: 15 hours Eligibility: None			<b>L5 Diploma in Retrofit Coordination and Risk Management</b> Length: 145hours self-paced (online/in-person) Eligibility: Usually 2years experience in built environment or a relevant level 3 qualification.
			<b>Skills Bootcamp – L5 Diploma in Retrofit Coordination and Risk Management</b> Length: 103 hours across 13 weeks Eligibility: A level 3 qualification in a built environment

#### COLOUR KEY:



Courses offered by training providers within the West of England





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

Insulation & Building Treatment

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

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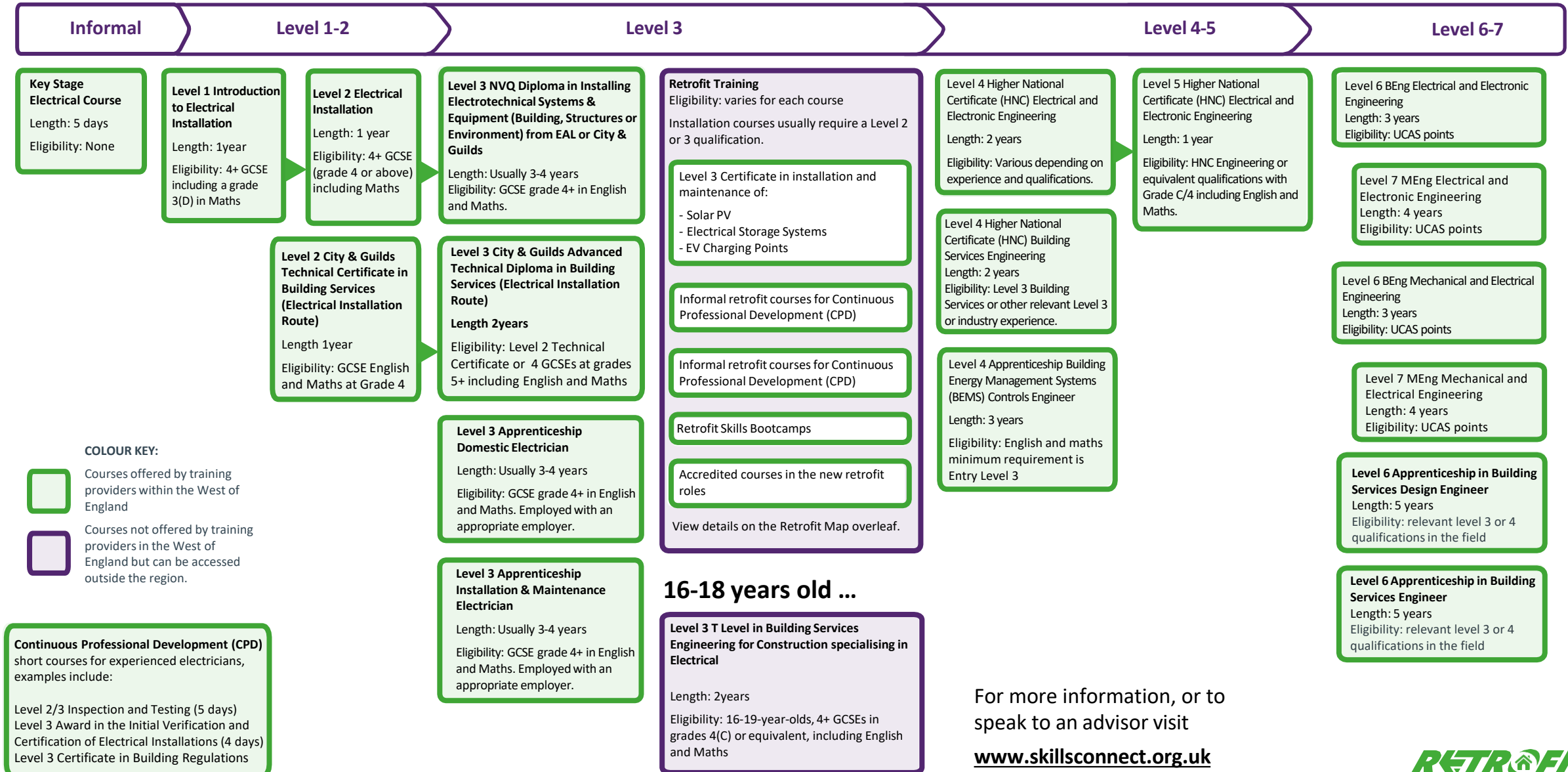
To view training providers offering courses on insulation in the West of England, click to view our [Skills Connect Directory](#).



## 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](http://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

#### COLOUR KEY:



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

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### Further Domestic Retrofit

Informal	Level 1-2	Level 3	Level 4-5		
General Retrofit		Retrofit Advisor	Domestic / Retrofit Energy Assessor	Retrofit Designer	Retrofit Coordinator
<b>Retrofit 101 (online)</b> Length: 2 hours Eligibility: None and it's free	<b>Level 2 Award Understanding Domestic Retrofit (online)</b> Length: 30hours (self-paced) Eligibility: None	<b>Level 3 Certificate in Domestic Retrofit Advice</b> Length: 30 hours (online) Eligibility: 18+ years	<b>Level 3 Award in Domestic Energy Assessment</b> Length: Days-Weeks depending on the course Eligibility: No previous qualifications or experience required	<b>Skills Bootcamp – L4 Award in Domestic Retrofit Assessment</b> 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).	<b>Level 5 CarbonLite Retrofit Coordination (online)</b> Length: 105 self-paced hours and 2 days live online tutoring. Eligibility: AECB membership, familiar with retrofit projects.
<b>PAS 2030 Standard Awareness (online)</b> Length: 2 days Eligibility: None	<b>Level 2 Award Introduction to Domestic Renewable Low Carbon Technologies (online)</b> Length: 1-2 days Eligibility: basic literacy and numeracy	<b>Level 3 Certificate in Retrofit</b> Length: 20 weeks Eligibility: None but interest in Retrofit Advice is valuable and relevant.	<b>Level 3 Certificate for Retrofit Assessors</b> Length: Days-Weeks depending on the course Eligibility: A Domestic Energy Assessment Qualification	<b>Level 4 Award in Domestic Retrofit Assessment</b> Length: 80 hours Eligibility: Level 3 Domestic Energy Assessment	<b>L5 Diploma in Retrofit Coordination and Risk Management</b> Length: 145hours self-paced (online/in-person) Eligibility: Usually 2years experience in built environment or a relevant level 3 qualification.
<b>CarbonLite Retrofit Foundation Course (online)</b> Length: 2 days Eligibility: None	<b>Level 2 Retrofit Skills (mix of online and in-person)</b> Length: Self-paced Eligibility: 1 year work experience in Construction			<b>Level 4 Award in Assessing Domestic Dwellings for Retrofit</b> Length: 80 hours Eligibility: Qualified Domestic Energy Assessor	<b>Skills Bootcamp – L5 Diploma in Retrofit Coordination and Risk Management</b> Length: 103 hours across 13 weeks Eligibility: A level 3 qualification in a built environment
<b>Domestic Retrofit (online)</b> Length: 3 hours Eligibility: None	<b>Level 2 Certificate in Retrofit</b> Length: 20 weeks Eligibility: None but experience in Construction is helpful				
<b>Retrofit Delivery (online)</b> Length: 4 x 3 hour sessions Eligibility: Tailored for contractors, installers, coordinators, assessors and design professionals.	<b>Level 2 Award for Green Ambassador within the Retrofit Sector (online)</b> Length: 8-10 weeks Eligibility: Practical experience in the retrofit sector.				
<b>Understanding Building Physics (online)</b> Length: 10-12 hours across 5 weeks Eligibility: None	<b>Level 2 C&amp;G Award in Retrofit</b> Length: 3 days part-time Eligibility: None				
<b>Understanding Non-Domestic Retrofit</b> Length: 15 hours Eligibility: None					

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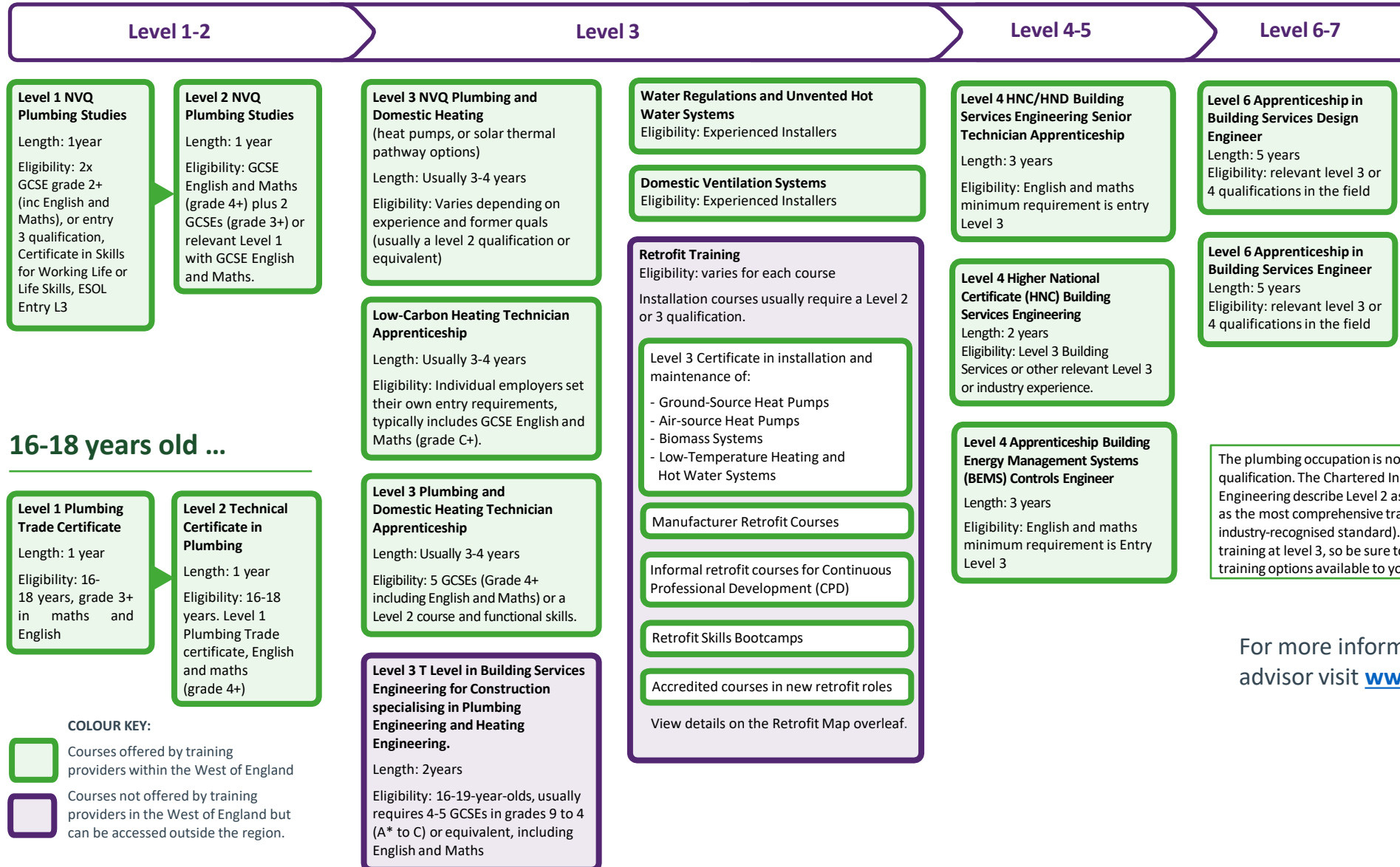


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For more information, or to speak to an advisor visit [www.skillsconnect.org.uk](http://www.skillsconnect.org.uk)

## 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

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#### 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

#### 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.



## Domestic Retrofit (Plumbing and Heating) 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
<b>Retrofit 101 (online)</b> Length: 2 hours Eligibility: None and it's free	<b>Level 2 Award Understanding Domestic Retrofit (online)</b> Length: 30hours (self-paced) Eligibility: None	<b>Level 3 Certificate in Domestic Retrofit Advice</b> Length: 30 hours (online) Eligibility: 18+ years	<b>Skills Bootcamp – L4 Award in Domestic Retrofit Assessment</b> 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).
<b>PAS 2030 Standard Awareness (online)</b> Length: 2 days Eligibility: None	<b>Level 2 Award Introduction to Domestic Renewable Low Carbon Technologies (online)</b> Length: 1-2 days Eligibility: basic literacy and numeracy	<b>Level 3 Certificate in Retrofit</b> Length: 20 weeks Eligibility: None but interest in Retrofit Advice is valuable and relevant.	<b>Level 3 Award in Domestic Energy Assessment</b> Length: Days-Weeks depending on the course Eligibility: No previous qualifications or experience required
<b>CarbonLite Retrofit Foundation Course (online)</b> Length: 2 days Eligibility: None	<b>Level 2 Retrofit Skills (mix of online and in-person)</b> Length: Self-paced Eligibility: 1 year work experience in Construction	<b>Level 3 Certificate for Retrofit Assessors</b> Length: Days-Weeks depending on the course Eligibility: A Domestic Energy Assessment Qualification	<b>Level 4 Award in Domestic Retrofit Assessment</b> Length: 80 hours Eligibility: Level 3 Domestic Energy Assessment
<b>Domestic Retrofit (online)</b> Length: 3 hours Eligibility: None	<b>Level 2 Certificate in Retrofit</b> Length: 20 weeks Eligibility: None but experience in Construction is helpful		<b>Level 4 Award in Assessing Domestic Dwellings for Retrofit</b> Length: 80 hours Eligibility: Qualified Domestic Energy Assessor
<b>Retrofit Delivery (online)</b> Length: 4 x 3 hour sessions Eligibility: Tailored for contractors, installers, coordinators, assessors and design professionals.	<b>Level 2 Award for Green Ambassador within the Retrofit Sector (online)</b> Length: 8-10 weeks Eligibility: Practical experience in the retrofit sector.		
<b>Understanding Building Physics (online)</b> Length: 10-12 hours across 5 weeks Eligibility: None	<b>Level 2 C&amp;G Award in Retrofit</b> Length: 3 days part-time Eligibility: None		
<b>Understanding Non-Domestic Retrofit</b> Length: 15 hours Eligibility: None			
			<b>Level 4-5 Retrofit Designer Course</b> Length: 80 hours Eligibility: Either Qualified and practising as a Retrofit Coordinator OR Qualified in architecture, architectural technology, surveying or construction management with experience in using design software.
			<b>Level 5 CarbonLite Retrofit Coordination (online)</b> Length: 105 self-paced hours and 2 days live online tutoring. Eligibility: AECB membership, familiar with retrofit projects.
			<b>L5 Diploma in Retrofit Coordination and Risk Management</b> Length: 145hours self-paced (online/in-person) Eligibility: Usually 2years experience in built environment or a relevant level 3 qualification.
			<b>Skills Bootcamp – L5 Diploma in Retrofit Coordination and Risk Management</b> Length: 103 hours across 13 weeks Eligibility: A level 3 qualification in a built environment

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