2c. T Level in Building Services Engineering for Construction

The Progression Profile

The T Level in Building Services Engineering for Construction has 7 occupational specialisms: electrical and electronic equipment engineering, electrotechnical engineering, refrigeration engineering and air conditioning engineering, gas engineering, plumbing and heating engineering, protection systems engineering, and heating and ventilation engineering.

For these occupational specialisms, there are progression pathways into apprenticeships, education and work.

The T Level is based on an occupational standard. The occupational standard will have an apprenticeship option, which is referred to in the profile as the ‘relevant occupation’.

For some apprenticeships, in particular the relevant occupation, a learner may have covered the content to a high level. They will not need to complete the apprenticeship in this step, this is noted as ‘not applicable’. An apprenticeship may also be shortened due to recognised prior learning (RPL), this is noted as accelerated. Links to the mapping have been included which detail the areas in need of further development before full competence is reached in that occupation.

For work, whilst some roles may be accessed after completing the T Level, others are available after further training and gaining more experience.

Please see below, the progression options for the occupational specialism:

1. Electrical and electronic equipment engineering specialism

For apprenticeships and technical qualifications at Level 3, there is the relevant occupation Electrical, Electronic Product Service and Installation Engineer (accelerated).

At Level 4, there is Building Services Engineering Technician and Building Energy Management Systems (BEMS) Control Engineer.

At Level 6, there is the Building Services Engineering Site Management.
For **education**, degree options may include building services engineering and facilities management.

**work**, career progression could include installer, service engineer, services technician, site supervisors, retrofit assessors and facilities management.

### 2. Electrotechnical engineering specialism

For apprenticeships and technical qualifications at Level 3, there is the relevant occupation **Installation and Maintenance Electrician (accelerated)** and **Domestic Electrician (accelerated)**.

At Level 4, there is **Building Services Engineering Technician** and **Building Energy Management Systems (BEMS) Control Engineer**.

At Level 6, there is the **Building Services Engineering Site Management**.

For **education**, degree options may include building services engineering and facilities management.

For **work**, career progression could include installation electrician, maintenance electrician, retrofit assessors, site supervisors, electrical wholesalers and facilities management.

### 3. Refrigeration engineering and air conditioning engineering specialism

For apprenticeships and technical qualifications at Level 3, there is the relevant occupation **Refrigeration, Air Conditioning and Heat Pump Engineering Technician (accelerated)**.

At Level 4, there is **Building Services Engineering Technician** and **Building Energy Management Systems (BEMS) Control Engineer**.

At Level 6, there is the **Building Services Engineering Site Management**.

For **education**, degree options may include building services engineering and facilities management.

For **work**, career progression could include refrigeration technician/engineer, air conditioning technician/engineer, retrofit assessors, heat pump technician/engineer, site supervisors and facilities management.
For 

4. Gas engineering specialism

For apprenticeships and technical qualifications at Level 3, there is the relevant apprenticeship Gas Engineering Operative (accelerated).

At Level 4, there is Building Services Engineering Technician and Building Energy Management Systems (BEMS) Control Engineer.

At Level 6, there is the Building Services Engineering Site Management.

For education, degree options may include building services engineering, gas engineering and facilities management.

For work, career progression could include gas engineer, site supervisors and facilities management.

5. Plumbing and heating engineering specialism

For apprenticeships and technical qualifications at Level 3, there is the relevant occupation Plumbing and Domestic Heating Technician (accelerated). At Level 4, there is Building Services Engineering Technician and Building Energy Management Systems (BEMS) Control Engineer. At Level 6, there is the Building Services Engineering Site Management.

For education, degree options may include building services engineering and facilities management.

For work, career progression could include plumbers mate, plumber, domestic heating engineer/installer, retrofit assessors, site supervisors, facilities management and water hygiene technician.

6. Protection systems engineering specialism

For apprenticeships and technical qualifications at Level 3, there is the relevant occupation Fire, Emergency and Security Systems Technician (accelerated).

At Level 4, there is Building Services Engineering Technician and Building Energy Management Systems (BEMS) Control Engineer.

At Level 6, there is the Building Services Engineering Site Management.

For education, degree options may include building services engineering and facilities management.
For work, career progression could include alarm/fire/emergency/security systems installer, maintainer, engineer and technician, retrofit assessors, site supervisors and facilities management.

7. Heating and ventilation engineering specialism

For apprenticeships and technical qualifications at Level 3, there is the relevant occupation Building Services Engineering Ventilation Hygiene Technician (accelerated).

At Level 4, there is Building Services Engineering Technician and Building Energy Management Systems (BEMS) Control Engineer.

At Level 6, there is the Building Services Engineering Site Management.

education, degree options may include building services engineering and facilities management.

For work, career progression could include building services engineering, ventilation hygiene technician, retrofit assessors, site supervisors a
T LEVEL IN BUILDING SERVICES ENGINEERING

1. Electrical and Electronic Equipment Engineering Occupational Specialism
   Relevant apprenticeship: Electrical, Electronic Product Service and Installation Engineer

2. Electrotechnical Engineering Occupational Specialism
   Relevant apprenticeship: Installation Electrician and Maintenance Electrician

3. Refrigeration Engineering and Air Conditioning Engineering Occupational Specialism
   Relevant apprenticeship: Refrigeration, Air Conditioning and Heat Pump Engineering Technician

- Apprenticeships and technical qualifications
- Education
- Work

Degree options may include:
- Level 3: Electrical, Electronic Product Service and Installation Engineer (Accelerated)
- Level 4: Building Services Engineering Technician
- Level 6: Building Services Engineering Site Management

Career progression could include:
- Installer
- Service Engineer
- Site Supervisors
- Retrofit Assessors
- Facilities management

(Accelerated) = May be shortened due to recognised prior learning (RPL)
Not applicable = The learner has covered the content to a high level and may bypass the apprenticeship in this step
In development = standard is being developed.
Under revision = standard is being revised.

Level 3: Building Services Engineering Technician
Building Energy Management Systems (BEMS) Controls Engineer

Level 4: Building Services Engineering Technician
Building Energy Management Systems (BEMS) Controls Engineer

Level 6: Building Services Engineering Site Management

Retrofit Assessors
Facilities management

Installation Electrician and Maintenance Electrician

Installation Electrician

Retrofit Assessors
Site Supervisors

Electrical wholesalers
Facilities Management

Level 3: Refrigeration, Air Conditioning and Heat Pump Engineering Technician (Accelerated)

Level 4: Building Services Engineering Technician
Building Energy Management Systems (BEMS) Controls Engineer

Level 6: Building Services Engineering Site Management

Retrofit Assessors
Facilities Management

Heat Pump Technician/Engineer
Air Conditioning Technician/Engineer

Site Supervisors
T LEVEL IN BUILDING SERVICES ENGINEERING

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7. Heating and Ventilation Engineering Occupational Specialism

Relevant apprenticeship: Building Services Engineering Ventilation Hygiene Technician

Apprenticeships and technical qualifications

Education

Work

Degree options may include:
Building Services Engineering Facilities Management

Career progression could include:
Building Services Engineering Ventilation Hygiene Technician

Site Supervisors
Retrofit assessor
Facilities Management

Level 3
Building Services Engineering Ventilation Hygiene Technician (Accelerated)

Level 4
Building Services Engineering Technician Building Energy Management Systems (BEMS) Controls Engineer

Level 6
Building Services Engineering Site Management