

4b. T Level in Maintenance, Installation and Repair for Engineering and Manufacturing

The Progression Profile

This T Level has five occupational specialisms: Maintenance engineering technologies: Mechanical Occupational Specialism; Maintenance engineering technologies: Mechatronic Occupational Specialism; Maintenance engineering technologies: Electrical & Electronic Occupational Specialism; Maintenance, installation, and repair: Light and Electric Vehicles Occupational Specialism; and Maintenance engineering technologies: Control & Instrumentation Occupational Specialism

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 each occupational specialism.

1. Maintenance engineering technologies: Mechanical Occupational Specialism

For apprenticeships and technical qualifications at level 3, the relevant occupation [Maintenance & Operations Engineering Technician \(mechanical option\)](#) (accelerated) is being revised. Further information will be added once the revisions are finalised.

At Apprenticeships at level 4, there is the [Electrical Power protection and Plant commissioning engineer](#), [Lead Engineering Maintenance Technician](#) (to be developed), [Automation and Controls Engineering Technician](#) and [Electrical Power Networks Engineer](#) apprenticeships.

At HTQ's at level 4, there is the [Automation and Controls Engineering Technician](#)

Other progression options may include aerospace engineering.

For **education**, degree options may include Civil and Railway Engineering, Electrical and Railway Engineering, Civil Engineer and Mechanical Engineering.

For **work**, career progression could include Maintenance & Operations Engineering Technician, Leisure and Entertainment Engineering Technician, Automation and Controls Engineer, Electrical Power Networks Engineer and Lead Engineering Maintenance Technician.

2. Maintenance engineering technologies: Mechatronic Occupational Specialism

For apprenticeships and technical qualifications at level 3, the relevant occupation [Maintenance & Operations Engineering Technician \(Electromechanical option\)](#) (accelerated) is being revised. Further information will be added once the revisions are finalised.

At level 4, there is the [Electrical Power protection and Plant commissioning engineer](#) and [Electrical Power Networks Engineer](#) apprenticeships.

For **education**, degree options may include Civil and Railway Engineering, Electrical and Railway Engineering, Civil Engineer and Mechanical Engineering.

For **work**, career progression could include Maintenance & Operations Engineering Technician, Electrical Power Protection and Plant Commissioning engineer and Electrical Power Networks Engineer.

3. Maintenance engineering technologies: Electrical & Electronic Occupational Specialism

For apprenticeships and technical qualifications at level 3, the relevant occupation [Maintenance & Operations Engineering Technician \(Electrical system and process control option\)](#) (**accelerated**) is being revised. Further information will be added once the revisions are finalised.

Other level 3 apprenticeships include [Motor Vehicle Service & Maintenance Technician \(Light Vehicle\)](#) and [Heavy Vehicle Service and Maintenance Technician](#).

At level 4, there is the [Electrical Power protection and Plant commissioning Engineer](#) and [Electrical Power Networks Engineer](#) apprenticeships.

For **education**, degree options may include Civil and Railway Engineering, Electrical and Railway Engineering, Civil Engineer and Mechanical Engineering.

For **work**, career progression could include Maintenance & Operations Engineering Technician, Motor Vehicle Service & Maintenance Technician, Heavy Vehicle Service

and Maintenance Technician and Electrical Power protection and Plant Commissioning Engineer.

4. Maintenance, installation, and repair: Light and Electric Vehicles

Occupational Specialism

For apprenticeships and technical qualifications at level 3, the relevant occupation is [Motor Vehicle Service & Maintenance Technician \(Light Vehicle\)](#) (**accelerated**).

Other level 3 apprenticeships include [Motorcycle Technician \(Repair and Maintenance\)](#), [Bus and Coach Engineering Technician](#), [Heavy Vehicle Service and Maintenance Technician](#) and [Vehicle Damage Panel Technician](#).

At level 4, there is the [Road Transport Engineering Manager](#) (in development), [Vehicle Damage Assessor](#) and [Propulsion Technician](#) apprenticeships.

For **education**, degree options may include Civil and Railway Engineering, Electrical and Railway Engineering, Civil Engineer and Mechanical Engineering.

For **work**, career progression could include Motor vehicle service and maintenance technician, Motorcycle Technician. Bus and coach engineering technician and Vehicle Damage Panel Technician.

5. Maintenance engineering technologies: Control & Instrumentation

Occupational Specialism

For apprenticeships and technical qualifications at level 3, the relevant occupation [Maintenance & Operations Engineering Technician \(Control and Instrumentation option\)](#) (**accelerated**) is being revised. Further information will be added once the revisions are finalised.

Other level 3 apprenticeships include [Utilities Engineering Technician](#) and [Commercial Catering Equipment Technician](#).

At Apprenticeships at level 4, there is the [Automation and Controls Engineering technician](#) and [Lead Engineering Maintenance Technician](#) apprenticeships.

At HTQ's at level 4, there is the [Automation and Controls Engineering Technician](#)

For **education**, degree options may include Civil and Railway Engineering, Electrical and Railway Engineering, Civil Engineer and Mechanical Engineering.

For **work**, career progression could include Maintenance & Operations Engineering Technician, Utility Engineering Technician, Commercial Catering Equipment Technician and Automation and Controls Engineering technician.

A learner could potentially move across progression routes from the different OS's due to broad core content

(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.

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1. Maintenance engineering technologies: Mechanical Occupational Specialism

Relevant Apprenticeship: [Maintenance & Operations Engineering Technician \(mechanical option\)](#)

Apprenticeships and technical qualifications

Level 3
[Maintenance & Operations Engineering Technician \(Accelerated\)](#)

Level 4 Apprenticeships
[Electrical Power protection and Plant commissioning engineer](#)
[Lead Engineering Maintenance Technician](#)
[Automation and Controls Engineering Technician](#)
[Electrical Power Networks Engineer](#)
HTQ
[Automation and Controls Engineering Technician](#)

Education

Degree options may include:
Civil and Railway Engineering Civil Engineer
Electrical and Railway Engineering Mechanical Engineering

Other progression options could include:
Aerospace

Work

Career progression could include:
Maintenance & Operations Engineering Technician Automation and Controls Engineer
Leisure and Entertainment Engineering Technician Electrical Power Networks Engineer
Lead Engineering Maintenance Technician

2. Maintenance engineering technologies: Mechatronic Occupational Specialism

Relevant Apprenticeship: [Maintenance & Operations Engineering Technician \(Electromechanical option\)](#)

Apprenticeships and technical qualifications

Level 3
[Maintenance & Operations Engineering Technician \(Accelerated\)](#)

Level 4
[Electrical Power protection and Plant commissioning engineer](#)
[Electrical Power Networks Engineer](#)

Education

Degree options may include:
Civil and Railway Engineering Civil Engineer
Electrical and Railway Engineering Mechanical Engineering

Work

Career progression could include:
Maintenance & Operations Engineering Technician Electrical Power Networks Engineer
Electrical Power Protection and Plant Commissioning engineer

3. Maintenance engineering technologies: Electrical & Electronic Occupational Specialism

Relevant Apprenticeship: [Maintenance & Operations Engineering Technician \(Electrical system and process control option\)](#)

Apprenticeships and technical qualifications

Level 3
[Motor Vehicle Service & Maintenance Technician \(Light Vehicle\)](#)
[Heavy Vehicle Service and Maintenance Technician](#)
[Maintenance & Operations Engineering Technician \(Accelerated\)](#)

Level 4
[Electrical Power protection and Plant commissioning Engineer](#)
[Electrical Power Networks Engineer](#)

Education

Degree options may include:
Civil and Railway Engineering Civil Engineer
Electrical and Railway Engineering Mechanical Engineering

Work

Career progression could include:
Maintenance & Operations Engineering Technician Heavy Vehicle Service and Maintenance Technician
Motor Vehicle Service & Maintenance Technician Electrical Power protection and Plant Commissioning Engineer

A learner could potentially move across progression routes from the different OS's due to broad core content

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