The Progression Profile

This T Level has four occupational specialisms: MPC Production – Machining and Toolmaking; MPC Production – Fitting and Assembly; Composites Manufacturing; and Fabrications and Welding Technologies.

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. MPC Production - Machining and Toolmaking Occupational Specialism
For apprenticeships and technical qualifications at level 3, the relevant occupation is **Machining Technician**.

At Apprenticeships at level 4, there is the **Process Leader** and **Engineering Manufacturing Technician** apprenticeships.

At HTQ's at level 4, there is the **Process Leader** and **Engineering Manufacturing Technician**.

At level 5, there is the **Aerospace Engineer** apprenticeship.

Other progression options may include mechanical production or manager/supervisor.

For **education**, degree options may include Manufacturing Engineering; and Electrical and Electronic Engineering.

For **work**, career progression could include Engineering Technician, Aerospace Technician, Aviation Engineer, Maritime Engineering, Machinist, Engineer and Toolmaker.

### 2. MPC Production – Fitting and Assembly Occupational Specialism

For apprenticeships and technical qualifications at level 3, the relevant occupations, **Engineering Fitter (accelerated)** and the **Engineering Technician (accelerated)** apprenticeships, are being revised. Further information will be added once the revisions are finalised. Other level 3 apprenticeships include **Maintenance & Operations Engineering**.
Technician, Survival Equipment Fitter (Military) (being revised), Heritage Engineering Technician, Marine Engineer, Food and Drink Maintenance Engineer (being revised).

At Apprenticeships at level 4, there is the Electrical Power Networks Engineer, Electrical Power Protection & Plant Commissioning Engineer, and Engineering Manufacturing Technician apprenticeships.

At HTQ’s at level 4, there is the Engineering Manufacturing Technician.

At level 5, there is the Food and Drink Engineer apprenticeship.

At level 6, there is the Food and Drink Advanced Engineer apprenticeship.

For education, degree options may include Manufacturing Engineering; and Electrical and Electronic Engineering.

For work, career progression could include Engineering Technician, Engineering Fitter, Food and Drink Engineer, Costing Engineer, Installation Engineer, Quality Engineer, Process Engineer and EEPC Engineer.

3. Composites Manufacturing Occupational Specialism

For apprenticeships and technical qualifications at level 3, the relevant occupations are Boatbuilder (accelerated) and Composites Technician (accelerated). Other level 3 apprenticeships include Motor Vehicle Service & Maintenance Technician (Light Vehicle).
At Apprenticeships at level 4, there is the Process Leader, Space Engineering Technician, Automation and Controls Engineering Technician and Rail Engineering Advanced Technician apprenticeships.

At HTQ's at level 4, there is the Process Leader, Space Engineering Technician, Automation and Controls Engineering Technician and Engineering Manufacturing Technician.

At level 6, there is the Control Technical Support Engineer (being revised), Manufacturing Engineer and Manufacturing Manager apprenticeships.

For education, degree options may include Manufacturing Engineering; and Electrical and Electronic Engineering.

For work, career progression could include Senior Technician, Composites Technician, Production Engineer, Rail Engineering Technician, Recycling Operative, Automation and Controls Engineering Tech and Space Engineering Tech.

4. Fabrications and Welding Technologies Occupational Specialism

For apprenticeships and technical qualifications at level 3, the relevant occupations include the Metal Fabricator (accelerated), Pipe Welder (accelerated), Plate Welder (accelerated). The Non-Destructive Testing apprenticeship is being revised. Further information will be added once the revisions are finalised.

At level 4, there is the Asset Manager and Nuclear Welding Inspection Technician apprenticeships.
At level 5, there is the Metal Recycling Technical Manager apprenticeship.

At level 6, there are the potential Fabrication Technologist and Welding Technologist apprenticeships.

At level 7, there is the Risk and Safety Management Professional apprenticeship.

For education, degree options may include Manufacturing Engineering; and Electrical and Electronic Engineering.

For work, career progression could include Metal Fabricator, Class A Welder, Class B Welder, Coded Pipe Welder, Non-Destructive Operator, Coded Plate Welder and Asset Manager.
(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.

1. MPC Production - Machining and Toolmaking Occupational Specialism
   - Relevant Apprenticeship: Machining Technician

Education

Apprenticeships and technical qualifications

Level 3
Apprenticeships
- Advanced Furniture CNC Technician
- Marine Engineer
- Machining Technician

Career progression could include:
- Engineering Technician
- Aerospace Technician
- Aviation Engineer
- Maritime Engineering
- Machinist
- Engineer
- Toolmaker

Degree options may include:
- Manufacturing Engineering
- Electrical and Electronic Engineering

Work

2. MPC Production - Fitting and Assembly Occupational Specialism
   - Relevant Apprenticeship: Engineering Fitter Engineering Technician (Fitting Options):
     - Aerospace Manufacturing Fitter
     - Aerospace Manufacturing Electrical/Mechanical & Systems Fitter
     - Maritime Electrical Fitter
     - Maritime Mechanical Fitter

Education

Apprenticeships and technical qualifications

Level 3
Maintenance & Operations Engineering Technician
- Survival Equipment Fitter (Military)
- Heritage Engineering Technician
- Marine Engineer
- Food and Drink Maintenance Engineer
- Machining Technician
- Engineering Fitter (Accelerated)

Degree options may include:
- Manufacturing Engineering
- Electrical and Electronic Engineering

Work

Career progression could include:
- Engineering Technician
- Costing Engineer
- Installation Engineer
- Quality Engineer
- Food and drink Engineer
- Process Engineer
- EEP Engineer

Other progression options could include:
- Mechanical Production
- Manager/Supervisor
- Design
(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.
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3. Composites Manufacturing Occupational Specialism

Relevant Apprenticeship: 
Boatbuilder
Composites Technician

Apprenticeships and technical qualifications

Level 3
Motor Vehicle Service & Maintenance Technician (Light Vehicle)
Boatbuilder (Accelerated)
Composites Technician (Accelerated)

Education

Degree options may include:
Manufacturing Engineering
Electrical and Electronic Engineering

Work

Career progression could include:
Senior Technician
Composites Technician
Production Engineer
Rail Engineering Technician
Recycling operative
Automation and Controls Engineering Technician
Space Engineering Technician

Level 4
Apprenticeship:
Process Leader
Space Engineering Technician
Automation and Controls Engineering Technician
Rail Engineering Advanced Technician
HTQ:
Process Leader
Space Engineering Technician
Automation and Controls Engineering Technician
Engineering Manufacturing Technician

Level 6
Control Technical Support Engineer
Manufacturing Engineer
Manufacturing Manager

4. Fabrications and Welding Technologies Occupational Specialism

Relevant Apprenticeship:
Metal Fabricator
Pipe Welder
Plate Welder
Non-Destructive Testing Engineering Technician

Apprenticeships and technical qualifications

Level 3
Metal Fabricator (Accelerated)
Pipe Welder (Accelerated)
Plate Welder (Accelerated)
Non-Destructive Testing Machining Technician

Education

Degree options may include:
Manufacturing Engineering
Electrical and Electronic Engineering

Work

Career progression could include:
Class b welder
Metal Fabricator
Coded plate welder
Class a welder
Coded pipe welder
Non-destructive operator
Asset manager

Level 4
Apprenticeship:
Asset Manager
Non-Destructive Testing Machining Technician

Level 5
Metal Recycling Technical Manager

Level 6
Fabrication Technologist

Level 7
Risk and Safety Management Professional