



Engineering



Engineering

Ever wanted to combine science and maths with creative design ideas to solve real world problems? Then a BTEC in Engineering could be the course for you.

BTECs in Engineering are all about combining creative ideas with practical applications. From the aerospace and automotive industries to housing and healthcare, a BTEC in Engineering is the ideal choice for people with creative flair and a pragmatic mind.

[Learn more about Engineering options](#)

Career options



Aeronautical Engineer

Electrical Systems Engineer

Motor Sports Engineer

Computer Systems Engineer

Mechatronics Technician

Welder

Manufacturing Engineer

Chemical Plant Process Operator

Top 5 skills



1. Problem-solving
2. Organisation
3. Digital skills
4. Research skills
5. Teamwork



CASE STUDY



Dean Hargreaves

Studied: BTEC HNC in Mechanical Engineering, Blackpool and The Fylde College.

Course highlights: Relating theory to practical applications and being able to have an open discussion on problems and solutions.

Next steps: Dean is progressing in his role as a Service Manager Engineer.

Progression map: Engineering

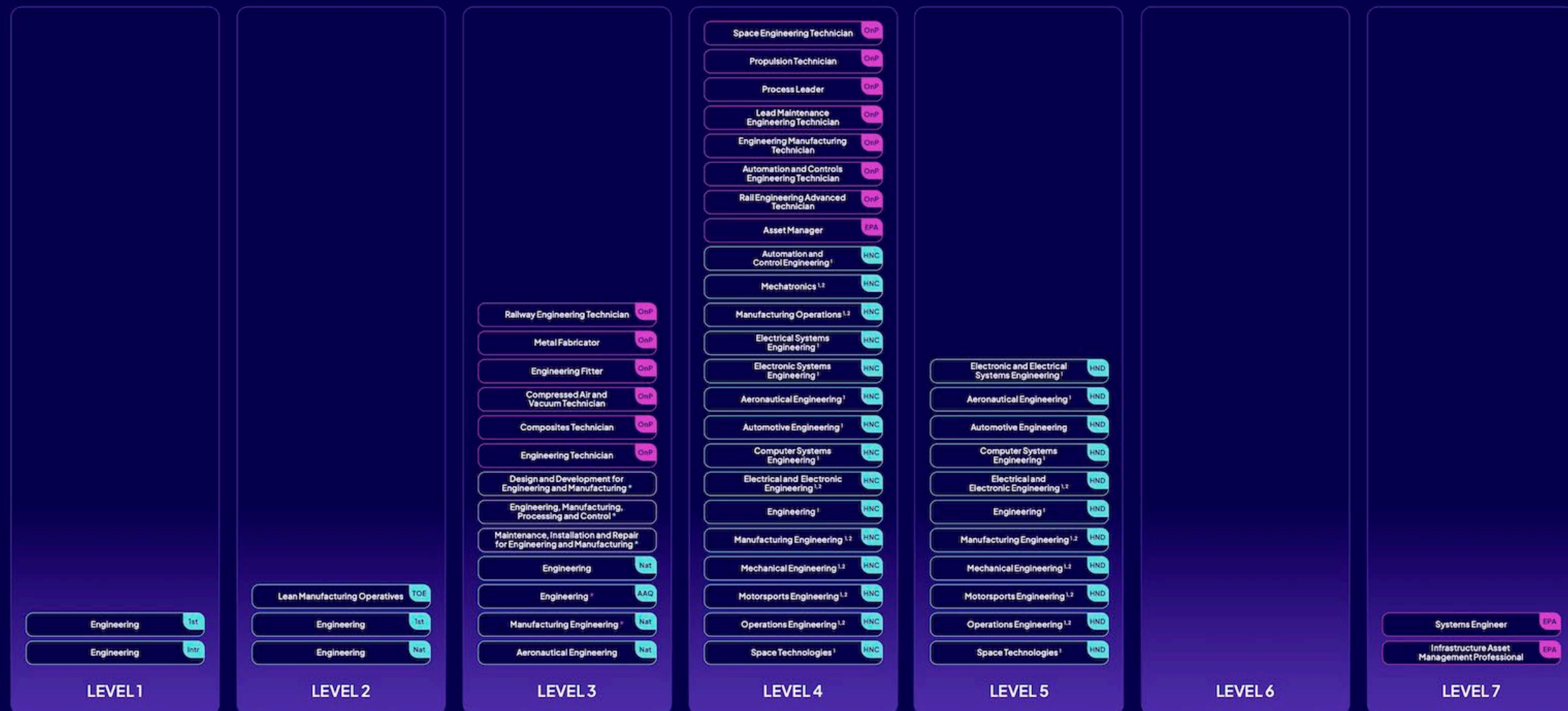
BTEC

1st	First	Intr	Introductory	AAQ	Alternative Academic Qualification	HND	Higher National Diploma
TA	Tech Award	TOE	Technical Occupational Entry	HNC	Higher National Certificate	Nat	Nationals

Apprenticeship

OnP	On-programme only
EPA	EPA only

T Levels



* Refer to your funding guide for individual qualification details: <https://www.pearson.com/en-gb/schools/campaigns/13-review-updates.html#links>

¹ Higher National approved as a Higher Technical Qualification (HTQ) | ² Available in England only.

* In development for first teach September 2027

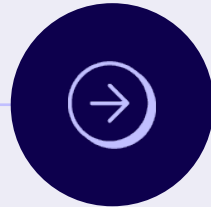


Example Progression Route

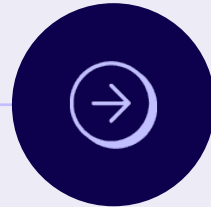
Job Role: Engineering/Manufacturing Operative



- ♦ BTEC First Award in Engineering (typically 14-16)



- ♦ BTEC Level 3 in Advanced Manufacturing Engineering



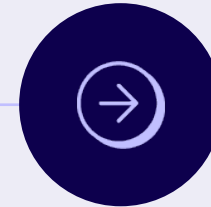
- ♦ BTEC Higher National Certificate Engineering - various pathways

OR

- ♦ BTEC Higher National Certificate Manufacturing Engineering for England (HTQ)

OR

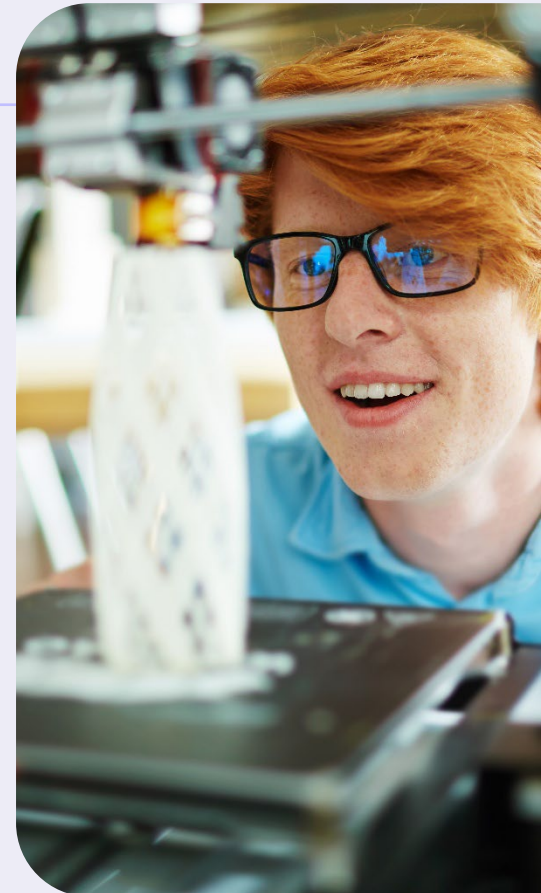
- ♦ BTEC Higher National Certificate Manufacturing Operations for England (HTQ)



- ♦ BTEC Higher National Diploma Engineering - various pathways

OR

- ♦ BTEC Higher National Diploma Manufacturing Engineering for England (HTQ)





Example Progression Route

Job Role: Technical Support Technician



- BTEC First Award in Engineering (typically 14-16)



- ♦ BTEC Level 3 Diploma in Engineering and Manufacturing Support Technologies

OR

- ♦ T Level in Maintenance, Installation and Repair for Engineering and Manufacturing*

OR

- ♦ T Level in Engineering, Manufacturing Processing and Control*

OR

- ♦ T Level in Design & Development for Engineering and Manufacturing*



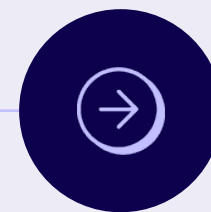
- ♦ BTEC Higher National Certificate Engineering - various pathways

OR

- ♦ BTEC Higher National Certificate Engineering for England (HTQ)

OR

- ♦ BTEC Higher National Certificate Manufacturing Engineering for England (HTQ)



- ♦ BTEC Higher National Diploma Engineering - various pathways

OR

- ♦ BTEC Higher National Diploma Engineering for England (HTQ)

OR

- ♦ BTEC Higher National Diploma Manufacturing Engineering for England (HTQ)



* First teach for September 2027

Copyright 2025 Pearson. All rights reserved.

Potential progress routes

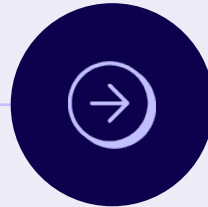


Example Progression Route

Job Role: Engineering Manufacturing Technician



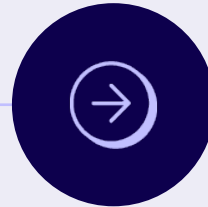
- ♦ BTEC First Award in Engineering (typically 14-16)



- ♦ BTEC Level 3 Diploma in Engineering and Manufacturing Support Technologies

OR

- ♦ T Level in Engineering, Manufacturing Processing and Control*



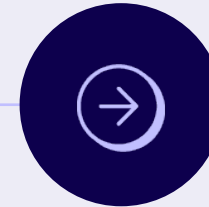
- ♦ BTEC Level 4 Higher National Certificate in Engineering for England

OR

- ♦ BTEC Level 4 Higher National Certificate in Manufacturing Engineering for England

OR

- ♦ BTEC Level 4 Higher National Certificate in Manufacturing Operations for England



- ♦ BTEC Level 4 Higher National Diploma in Engineering for England

OR

- ♦ BTEC Level 4 Higher National Diploma in Manufacturing Engineering for England

* First teach for September 2027



Take your next step: Speak to your
local education provider.