

LEVEL 3 ENGINEERING

EXTENDED DIPLOMA LEARNING JOURNEY

Pearson BTEC Level 3 National Extended Diploma in Engineering (RQF)

Two-year course 15 units 1080 guided learning hours Equivalent in size to 3 A levels

ENGINEERING PRINCIPLES

PRACTICAL SKILLS

DESIGN AND INNOVATION

TECHNICAL KNOWLEDGE

SUSTAINABILITY

APPLICATION

YEAR 12

2025-26
Engineering foundations

Unit 1

Engineering Principles



120 GLH

External, max 32 points

Unit 2

Delivery of Engineering Processes Safely as a Team



60 GLH

Internal, max 16 points

Unit 3

Engineering Product Design and Manufacture



120 GLH

External, max 32 points

Unit 4

Applied Commercial and Quality Principles in Engineering



60 GLH

Internal, max 16 points

Unit 10

Computer Aided Design in Engineering



60 GLH

Internal, max 16 points

Unit 24

Maintenance of Mechanical Systems



60 GLH

Internal, max 16 points

Unit 41

Manufacturing Secondary Machining Processes



60 GLH

Internal, max 16 points

2025-27 cohort route. Unit 41 continues into Year 13 for outstanding machining evidence.

Unit 5

A Specialist Engineering Project



60 GLH

Internal, max 16 points

Unit 6

Microcontroller Systems for Engineers



120 GLH

External, max 32 points

Unit 7

Calculus to Solve Engineering Problems



60 GLH

Internal, max 16 points

Unit 58

Energy Management



60 GLH

Internal, max 16 points

Unit 8

Further Engineering Mathematics



60 GLH

Internal, max 16 points

Unit 17

Power and Energy Electronics



60 GLH

Internal, max 16 points

Unit 45

Additive Manufacturing Processes



60 GLH

Internal, max 16 points

Unit 57

Sustainable Transport



60 GLH

Internal, max 16 points

Final portfolios and practical evidence support progression to university, apprenticeships and engineering careers.

2026-27 MILESTONE ASSESSMENTS

Year group	MA1	MA2	MA3	Mock
Year 12	10-13 Nov 2026	11-18 Jan 2027	21-25 Jun 2027	23 Feb-5 Mar 2027
Year 13	1-9 Oct 2026	7-16 Dec 2026	22 Feb-5 Mar 2027	-

Unit 6 MA1: 2 October 2026. January 2027 target: 12-hour Pearson set task. Exact assessment dates TBC.

HOW YOU ARE ASSESSED

Units 1, 3 and 6 have external assessments.
The other units use internal assignments.

Grade	60 GLH internal	120 GLH external*
Near Pass	-	8
Pass	6	12
Merit	10	20
Distinction	16	32

*External figures are minimum points for each grade.
Pearson also applies completion and required-grade rules.

SKILLS FOR LIFE

Problem solving
Teamwork
Creativity
Technical knowledge
Project management
Sustainability awareness

FUTURE PATHWAYS

University
Engineering degrees
Apprenticeships
Higher and degree routes
Engineering careers
Related technical sectors

OVERALL GRADES AND UCAS TARIFF

Grade	Minimum BTEC points	UCAS Tariff
D*D*D*	270	168
D*D*D	252	160
D*DD	234	152
DDD	216	144
DDM	196	128
DMM	176	112
MMM	156	96
MMP	140	80
MPP	124	64
PPP	108	48

BTEC points determine the qualification grade. UCAS Tariff points support university applications.

A LEVEL UCAS TARIFF COMPARISON

A level	A*	A	B	C	D	E
UCAS	56	48	40	32	24	16

Route: 2025-27 cohort. The calendar covers both current year groups. Current Year 12 studies Unit 17 in autumn.

ENGINEERING A BRIGHTER TOMORROW

