



Part of the  
Enginuity Group

# Curriculum Planning

Guide 2023



# Contents

## Page

**01**

---

03

[Introduction](#)

**02**

---

05 - 07

[Your guide to the post-16 reforms](#)

**03**

---

07

[Popular full-time qualifications in England](#)

**04**

---

12

[Engineering & Manufacturing and Construction & Building Services T Levels](#)

**05**

---

15

[Qualifications supported by current Adult Education Budget funding and Short Awards](#)

**06**

---

19

[Apprenticeship & occupational qualifications 2023](#)

**07**

---

25

[Adult \(19+\) qualifications in development in response to reforms](#)

**08**

---

28

[EAL Approved](#)

**09**

---

29

[About EAL](#)

# 1. Introduction

EAL is the specialist Awarding Organisation, End Point Assessment Organisation and skills partner for the UK's engineering and manufacturing industries. We're dedicated to ensuring people and employers have the right skills at the right time to keep up with evolving industry needs, new technologies and the net-zero transition.

Our qualifications are fine-tuned to the needs of our sectors and are used in schools, academies, colleges, universities, private training facilities and workplaces across the UK. Over the past decade, 1.3 million people have embarked on an EAL course. The recent post-16 education reforms in England affect Level 2 and Level 3 qualifications in Engineering & Manufacturing and Construction & Building Services Engineering – the main changes being the defunding of technical qualifications that overlap with T Levels and Level 2 qualifications that do not meet the [Skills and Post-16 Education Act of 2022](#).

We understand these changes may be a cause of concern – we're here to clarify the reforms and help you plan for the coming years.

## 2. Your guide to the post-16 reforms

### What are the latest changes to post-16 qualifications in England?

**T Levels** were introduced in September 2021 for Construction & Building Services Engineering and September 2022 for Engineering & Manufacturing as the main technical qualification options for 16 to 19-year old students. The qualifications are intended to lead to skilled employment opportunities, apprenticeships, further qualifications or higher education courses.

**Level 3** Construction & Building Services Engineering qualifications that overlap with T Levels (i.e. other technical qualifications with the same intended outcomes) will be defunded for 16 to 19-year-olds in August 2024, while Level 3 Engineering & Manufacturing qualifications that overlap with T Levels will be defunded for 16 to 19-year-olds in August 2025.

**Level 2** qualifications that do not meet post-2022 education standards will be defunded for 16 to 19-year-olds in a phased way over the next couple of years. For Construction & Building Services Engineering this will be from August 2025 and for Engineering & Manufacturing this is expected to be from 2026.

**New qualifications for adult learners (19+)** will be introduced to provide entry routes into trades.

**Apprenticeships** haven't changed and are still part of the landscape for post-16 and adult learners.

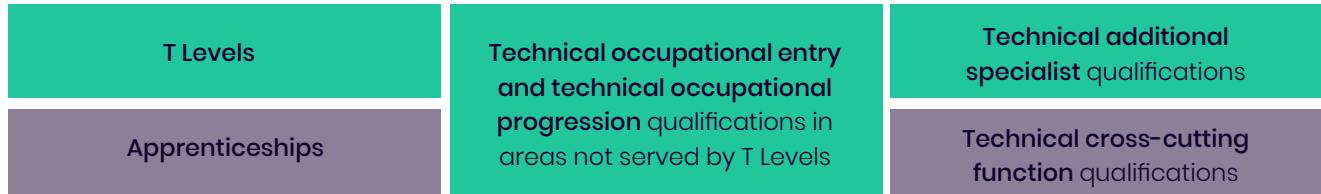
The reforms aim to boost skills and help more people secure better-paid jobs; simplify education and career progression pathways; support advancement to apprenticeships or higher education; and put employers and educational standards at the heart of the technical qualifications design.

Defunding overlapping qualifications is intended to remove duplicated courses. This is part of the transition to the new [Advanced British Standard](#), which the UK government describes as a “simplified, high-quality qualification offer”. It takes the best of A Levels and T Levels and combines them in a single Baccalaureate-style post-16 qualification, designed to bridge the perceived divide between technical and academic education.

## Landscape for technical qualification for 16–19

### Post-reform landscape at 16–19

Education providing the knowledge, skills and behaviours students need to progress to skilled employment or higher technical study.



## Landscape for technical qualification for adults

### Post-reform landscape for adults

Education providing the knowledge, skills and behaviours students need to progress to skilled employment or higher technical study.



In addition to this, the reformed landscape in the future will have Level 2 qualifications supporting progression to the T Level occupational routes and further ahead, qualifications at level 1 and entry-level.

## The future of T Levels

Despite some speculation to the contrary, T Levels will form the backbone of the new Advanced British Standard and EAL remains committed to providing these qualifications in Engineering and Manufacturing, and Building Services Engineering, with our partner City & Guilds.

The government says it considers T Levels the gold standard in technical education for ages 16 to 19, [backing this with](#) a 10% increase in funding to T Level providers for the 2023–24 academic year, a new £12 million Employer Support Fund, and extra funding for careers guidance on T Levels.

“T Levels will be the foundation of the technical options within the Advanced British Standard, and we will continue their roll-out,” wrote Robert Halfon, the Minister for Skills, Apprenticeships and Higher Education ([FE Week](#), October 2023).

## Further support with reforms

We hope to have final approval on the new qualifications we have submitted for adult learners by summer 2024. Following this EAL's technical advisor team will begin working with centres to explain the new qualifications.

For more guidance, take a look at our dedicated [resources page](#) and our upcoming [events and webinars](#) (including recordings of past webinars). Finally, don't forget to sign up to [EAL's Spotlight newsletter](#) for updates, including news about qualifications.

### Rob Stott

Industry and Portfolio Manager –  
Engineering and Manufacturing:

✉ [Robert.Stott@eal.org.uk](mailto:Robert.Stott@eal.org.uk)

### Sam Ashman

Lead Technical Advisor –  
Engineering and Manufacturing:

✉ [Samantha.Ashman@eal.org.uk](mailto:Samantha.Ashman@eal.org.uk)

### Kevin Sparrow

Industry Portfolio Manager –  
Building Services Engineering:

✉ [Kevin.Sparrow@eal.org.uk](mailto:Kevin.Sparrow@eal.org.uk)

### Alex Robinson

Lead Technical Advisor –  
Building Services Engineering:

✉ [Alex.Robinson@eal.org.uk](mailto:Alex.Robinson@eal.org.uk)

## 3. Popular full-time qualifications in England.

Dedicated to delivering support to our valued providers across England.

EAL offers a comprehensive range of Engineering & Manufacturing and Construction & Building Service Engineering qualifications including NVQs, VRQs for Apprenticeships, and qualifications aligned to Apprenticeship Standards.

In this section you will find some of the most popular qualifications in EAL's offer for 16 to 19-year-olds.

Note that the list is subject to change. Official funding sources should always be checked to ensure that the information in this brochure is current.

## EAL's Engineering & Manufacturing offer in England

### Level 1 Offer

Qualification Title	QAN	GLH
EAL Level 1 Award in Engineering Technologies*	601/5657/0	80
EAL Level 1 Certificate in Engineering Technologies*	601/5658/2	160
EAL Level 1 Diploma in Engineering Technologies*	601/5659/4	360
EAL Level 1 NVQ Certificate in Performing Engineering Operations	600/8229/X	160
EAL Level 1 Award in Engineering & Manufacture	600/6002/5	80
EAL Level 1 Diploma in Engineering and Manufacture	600/6145/5	320
EAL Level 1 Certificate in Engineering & Technology	501/0386/6	200

\*Engineering Technologies contain various pathways such as Mechanical, Maintenance, Motor Vehicle, Fabrication and Welding, Pipework, Electrical and Electronic, Aerospace, and Rail. Please consult the individual Qualification Manual for further details.

**Note-** Single units can be selected within any of the above qualifications.

## 8 Qualifications, certification and skills solutions by engineers for engineering success

### Level 2 Offer

Qualification Title	QAN	GLH
EAL Level 2 Certificate in Engineering Technologies*	601/5670/3	230
EAL Level 2 Diploma in Engineering Technologies*	601/5669/7	390
EAL Level 2 NVQ Diploma in Performing Engineering Operations	600/8264/1	214
EAL Level 2 Diploma in Engineering Technology	500/7579/0	330
EAL Level 2 Diploma in Maintenance Engineering Technology	501/1059/7	330
EAL Level 2 Diploma in Practical Engineering (14-16 Only)	610/0089/8	240

### Addition to the Level 2 Offer from September 2025

Qualification Title	QAN	GLH	Further info
EAL Level 2 Technical Occupational Entry in Electrical Engineering (Diploma)	TBC	410	(Level 2 reforms) Funded, subject to IfATE approval, first teaching from September 2025.
EAL Level 2 Technical Occupational Entry in Fabrication and Welding (Diploma)	TBC	410	
EAL Level 2 Technical Occupational Entry in Machining (Diploma)	TBC	410	
EAL Level 2 Technical Occupational Entry in Mechanical Maintenance (Diploma)	TBC	410	
EAL Level 2 Technical Occupational Entry in Technical Support (Diploma)	TBC	410	

\*Engineering Technologies contain various pathways such as Mechanical, Maintenance, Motor Vehicle, Fabrication and Welding, Pipework, Electrical and Electronic, Aerospace, and Rail. Please consult the individual Qualification Manual for further details.

**Note-** Single units can be selected within any of the above qualifications



## 9 Qualifications, certification and skills solutions by engineers for engineering success

### Level 3 Offer

Qualification Title	QAN	GLH	First Teach (Funded)			Further info
			Sept 23	Sept 24	Sept 25	
EAL Level 3 Certificate in Engineering Technologies*	60158001	225	Yes	Yes	No	(Overlaps with T levels from 1st Aug 2025)
EAL Level 3 Subsidiary Diploma in Engineering Technologies*	60157999	375	Yes	Yes	No	(Overlaps with T levels from 1st Aug 2025)
EAL Level 3 Diploma in Engineering Technologies*	60158013	666	Yes	Yes	No	(Overlaps with T levels from 1st Aug 2025)
EAL Level 3 Extended Diploma in Engineering Technologies*	60158025	750	Yes	Yes	No	(Overlaps with T levels from 1st Aug 2025)
EAL Level 3 Diploma in Engineering Technology*	501/1130/9	600	Yes	Yes	No	(Overlaps with T levels from 1st Aug 2025)
EAL Level 3 Diploma in Fabrication and Welding Engineering Technology	501/1131/0	600	Yes	Yes	No	(Overlaps with T levels from 1st Aug 2025)
EAL Level 3 Advanced Diploma in Engineering Technology	6014564X	450	Yes	Yes	No	Overlaps with T levels from 1st Aug 2025)
EAL Level 3 Technical Extended Diploma in Engineering Technologies	603/0564/2	1095	Yes	Yes	No	Overlaps with T levels from 1st Aug 2025)
EAL Level 3 Extended Diploma in Machining (Development Knowledge)	610/0793/6	585	Yes	Yes	No	(Overlaps with T levels from 1st Aug 2025)

\*Engineering Technologies contain various pathways such as Mechanical, Maintenance, Motor Vehicle, Fabrication and Welding, Pipework, Electrical and Electronic, Aerospace, and Rail. Please consult the individual Qualification Manual for further details.

**Note-** Single units can be selected within any of the above qualifications

# EAL's Construction & Building Services Engineering offer in England

## (For delivery in an FE environment)

**Note** that the list is subject to change. Official funding sources should always be checked to ensure that the information in this brochure is current.

### Level 1 Offer

These qualifications can be delivered in an FE environment and do not require occupational evidence.

Qualification Title	QAN	GLH	Further info
EAL Level 1 Award in Health and Safety in a Construction Environment	603/2310/3	21	New reformed L1 BSE offer in 2027 TBC.
EAL Level 1 Certificate in Practical Construction Operations	601/8428/0	200	
EAL Level 1 Diploma in Plumbing	600/8552/6	361	
EAL Level 1 Diploma In Electrical Installation	601/0409/0	390	
EAL Level 1 Award in Building Services Engineering	600/6005/0	76	
EAL Level 1 Diploma In Building Services Engineering Multi-Skilled Operations	600/6004/9	331	
EAL Level 1 Diploma in Practical Construction Operations	601/8432/2	400	

### Level 2 Offer

These qualifications can be delivered in an FE environment and do not require occupational evidence.

Qualification Title	QAN	GLH	Further info
EAL Level 2 Diploma in Access to Building Services Engineering	600/1023/X	398	New reformed L2 BSE offer in 2026 TBC.
EAL Level 2 Diploma in Plumbing and Heating	600/6726/3	463	
EAL Level 2 Intermediate Diploma in Plumbing	601/4562/6	560	
EAL Level 2 Diploma In Electrical Installation	600/6724/X	502	
EAL Level 2 Intermediate Diploma in Electrical Installation	601/4561/4	486	

Level 3 Offer					
Qualification Title	QAN	GLH	First Teach (Funded)		Further info
			Sept 23	Sept 24	
EAL Level 3 Diploma in Domestic Plumbing and Heating	600/8595/2	468	Yes	No	Overlaps with T levels from 1st Aug 2024
EAL Level 3 Advanced Diploma in Plumbing	601/4567/5	363	Yes	No	Overlaps with T levels from 1st Aug 2024
EAL Level 3 Diploma in Gas Utilisation: Core Skills and Knowledge	600/0577/4	410	Yes	No	Overlaps with T levels from 1st Aug 2024
EAL Level 3 Diploma In Electrical Installation	600/9331/6	459	Yes	No	Overlaps with T levels from 1st Aug 2024
EAL Level 3 Advanced Diploma in Electrical Installation	601/4563/8	459	Yes	No	Overlaps with T levels from 1st Aug 2024



## Forthcoming L3 BSE qualifications in England from September 2025 for adults (19+).

Developed as part of sector reform.

- EAL Level 3 Technical Occupational Entry in Electrical Installation and Maintenance (Diploma)
- EAL Level 3 Technical Occupational Entry in Plumbing and Domestic Heating (Diploma)
- EAL Level 3 Technical Specialist in the Installation of Electric Vehicle Charging Equipment (Award).

## 4. Engineering & Manufacturing and Construction & Building Services T Levels

### Engineering & Manufacturing T-Levels – current and ongoing offering for 16 to 19-year-olds

T Levels in Engineering and Manufacturing were introduced in 2022, delivered collaboratively by EAL and City & Guilds.

**We currently provide the following [Engineering and Manufacturing T Levels](#) for centres in England:**

- T Level Technical Qualification in Design and Development for Engineering and Manufacturing (8714)
- T Level Technical Qualification in Maintenance, Installation and Repair for Engineering and Manufacturing (8712)
- T Level Technical Qualification in Engineering, Manufacturing, Processing and Control (8713)

Our Engineering and Manufacturing T Levels are designed with our Employer Industry Board to ensure they meet sector needs and are aligned with apprenticeship standards.

**All T Level programmes include the following compulsory elements:**

- A Technical Qualification (TQ), which includes: core theory, concepts and skills for the relevant industry area
- An industry placement with an employer
- A minimum standard in maths and English if learners have not already achieved them at the start of their T Levels

## Construction & Building Services Engineering T-Levels – current and ongoing offering for 16 to 19-year-olds

In collaboration with City & Guilds, EAL started offering BSE T Levels in 2021.

**We currently provide the following T Levels for Construction and Building Service Engineering in England:**

- T Level Technical Qualification in Building Services Engineering for Construction (8710)
- T Level Technical Qualification in Onsite Construction (8711)

**The T Level programmes include the following compulsory elements:**

- A Technical Qualification (TQ), which includes: core theory, concepts and skills for the relevant industry area
- An industry placement with an employer
- A minimum standard in maths and English if learners have not already achieved them at the start of their T Levels



## Current Adult Education Budget funding

### Unlock Potential with the AEB: The Pathway to Free Courses for Job Success

For those dreaming of a brighter future and enhanced career prospects in the engineering, manufacturing, BSE and construction industries, our qualifications are designed to empower learners with the skills and knowledge needed to seize exciting job opportunities and excel in their chosen field.

The Adult Educational Budget (AEB) in England provides eligible learners with funded qualifications, including fully and loan-funded options.

You can find the range of qualifications EAL offers in the engineering, BSE and construction sectors that can be provided to adults eligible to utilise the AEB in sections 5 to 8 of this brochure.

Gaining a level 3 qualification can boost income by 16% and help learners stand out to employers. The courses are designed to help improve your job opportunities and could lead to earning a higher wage.

Qualifications listed may also be used in other initiatives such as Restart, ESF, or SWAP. Please always refer to the current official funding sources of information.

# 5. Qualifications supported by current Adult Education Budget and Short Awards

## Engineering & Manufacturing qualifications 2023

Qualification Name	Local Flexibilities Funding Available	Legal Entitlement L2 Funding Available
<b>Level 1</b>		
EAL Level 1 Award in Introductory Tungsten Inert Gas Welding Skills 600/2170/6	Yes	
EAL Level 1 Award in Introductory Metal Inert Gas Welding Skills 600/2171/8	Yes	
EAL Level 1 Award in Introductory Manual Metal Arc Welding Skills 600/2172/X	Yes	
EAL Level 1 Diploma In Engineering Technologies 601/5659/4*	Yes	
EAL Level 1 NVQ Certificate in Performing Engineering Operations 600/8229/x	Yes	
EAL Level 1 Award In Engineering & Manufacturing 600/6002/5	Yes	
EAL Level 1 Diploma In Engineering and Manufacturing 600/6145/5	Yes	
<b>Level 2</b>		
EAL level 2 Certificate in Positional Welding 501/1807/9	Yes	Yes
EAL Level 2 NVQ Diploma in Performing Engineering Operations 600/8264/1	Yes	Yes
EAL Level 2 Certificate in Engineering Technologies 601/5670/3*	Yes	Yes
EAL Level 2 Diploma in Engineering Technologies 601/5669/7*	Yes	Yes
EAL Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence) 601/7179/0	Yes	Yes

\*Engineering Technologies contain various pathways such as Mechanical, Maintenance, Motor Vehicle, Fabrication and Welding, Pipework, Electrical and Electronic, Aerospace, and Rail. Please consult the individual Qualification Manual for further details.

**Note-** Single units can be selected within any of the above qualifications.

## 16 Qualifications, certification and skills solutions by engineers for engineering success

Qualification Name	Advanced Learner Loans Funding Available	L3 Free Courses for Jobs Funding Available
<b>Level 3</b>		
EAL Level 3 Subsidiary Diploma in Engineering Technologies 601/5799/9*	Yes	Yes
EAL Level 3 Certificate in Engineering Technologies 601/5800/1*	Yes	Yes
EAL Level 3 Diploma in Engineering Technologies 601/5801/3*	Yes	Yes

\*Engineering Technologies contain various pathways such as Mechanical, Maintenance, Motor Vehicle, Fabrication and Welding, Pipework, Electrical and Electronic, Aerospace, and Rail. Please consult the individual Qualification Manual for further details.

**Note-** Single units can be selected within any of the above qualifications.

## Construction & Building Services Engineering qualifications 2023

Qualification Name	Local Flexibilities Funding Available	Legal Entitlement L2 Funding Available
<b>Level 1</b>		
EAL Level 1 Award in Practical Construction Operations 601/8433/4	Yes	
EAL Level 1 Award in Health and Safety in a Construction Environment 603/2310/3	Yes	
EAL Level 1 Award In Building Services Engineering 600/6005/0	Yes	
EAL Level 1 Certificate In Practical Construction Operations 601/8428/0	Yes	
EAL Level 1 Diploma in Practical Construction Operations 601/8432/2	Yes	
EAL Level 1 Diploma In Building Services Engineering Multi-Skilled Operations 600/6004/9	Yes	
EAL Level 1 Diploma In Plumbing 600/8552/6	Yes	
EAL Level 1 Diploma In Electrical Installation 601/0409/0	Yes	



## 17 Qualifications, certification and skills solutions by engineers for engineering success

Qualification Name	Local Flexibilities Funding Available	Legal Entitlement L2 Funding Available
<b>Level 2</b>		
EAL Level 2 Diploma in Plumbing and Heating 600/6726/3	Yes	
EAL Level 2 Intermediate Diploma in Plumbing 601/4562/6	Yes	Yes
EAL Level 2 Diploma In Gas Utilisation Core Skills and Knowledge 600/8547/2	Yes	
EAL Level 2 NVQ Certificate in Plant Operations (Construction) 601/7790/1	Yes	
EAL Level 2 Diploma in Access to Building Services Engineering 600/1023/X	Yes	
EAL Level 2 Intermediate Diploma in Electrical Installation 601/4561/4	Yes	Yes
EAL Level 2 Diploma In Electrical Installation 600/6724/X	Yes	

Qualification Name	Legal Entitlement L3 Funding Available	Advanced Learner Loans Funding Available	L3 Free Courses for Jobs Funding Available
<b>Level 3</b>			
EAL Level 3 Advanced Diploma in Electrical Installation 601/4563/8	Yes	Yes	Yes
EAL Level 3 NVQ Diploma in Installing Electrotechnical Systems and Equipment (Buildings, Structures and the Environment) 501/1605/8		Yes	Yes
EAL Level 3 Diploma in Plumbing and Heating 600/8595/2	Yes	Yes	Yes
EAL Level 3 Advanced Diploma in Plumbing 601/4567/5	Yes	Yes	Yes

## 18 Qualifications, certification and skills solutions by engineers for engineering success

In addition, learners can expand their opportunities with our extensive selection of industry approved CPD and short qualifications, delivered at full cost recovery (or possibly funded), adding even more value to their skill sets.

Qualification Name
<b>Level 2</b>
EAL Level 2 Award in Fundamental Inspection, Testing and Initial Verification 603/0144/2
<b>Level 3</b>
<b>Electrotechnical</b>
EAL Level 3 Award in Industrial and Panel Wiring 603/5423/9
EAL Level 3 Award in DC Electrical Installations within the Telecommunications Industry 603/7601/6
EAL Level 3 Award in the Requirements for Electrical Installations BS 7671:2018 603/3298/0
EAL Level 3 Award in the Initial Verification and Certification of Electrical Installations 600/4337/4
EAL Level 3 Award in the Periodic Inspection, Testing and Certification of Electrical Installations 600/4338/6
EAL Level 3 Award in Electrical Installation Inspection, Testing, Certification and Reporting 603/2625/6
EAL Level 3 Award In the In-Service Inspection and Testing Of Electrical Equipment (PAT) 600/4340/4
EAL Level 3 Award in the Building Regulations for Electrical Installations in Dwellings 603/0149/1
<b>Electrotechnical / Fire safety</b>
EAL Level 3 Award in the Requirements of Fire Detection and Fire Alarm Systems for Buildings BS 5839-1:2017 603/4906/2
EAL L3 Award in the Requirements for Fire Detection and Alarm Systems in Dwellings
EAL Level 3 Award in the Commissioning, Handover and Servicing of Fire Detection and Alarm Systems to BS 5839-1 610/0039/3
EAL Level 3 Award in the Servicing and Maintenance of Portable Fire Extinguishers 603/7133/X (available in Scotland as an SCQF L6)
<b>Renewables and environmental technologies</b>
EAL Level 3 Award in the Fundamental Principles and Requirements of Environmental Technology Systems 600/0665/1
EAL Level 3 Award in the Installation and Maintenance of Heat Pump Systems (Non-refrigerant Circuits) 600/5253/3
EAL Level 3 Award in the Requirements for the Installation of Electric Vehicle Charging Points 603/3929/9
EAL Level 3 Award in the Installation of Small Scale Solar Photovoltaic Systems 600/5175/9
EAL Level 3 Award in the Design, Installation and Commissioning of Electrical Energy Storage Systems 610/2091/6
<b>Level 4</b>
EAL Level 4 Award in the Design and Verification of Electrical Installations 601/8231/3

Funding in some circumstances may be available for the qualifications above in England or for eligible electrical contractors via the JIB's Skills Development Fund. Please always refer to the current official funding sources of information.

## 6. Apprenticeship & occupational qualifications 2023

A comprehensive overview of EAL sector and standard qualifications that support Apprenticeship Standards being delivered in England.

### Engineering Technician Standard – ST0457

Standard	Qualification Title	Qualification Number
Aerospace Manufacturing Fitter Level 3	EAL Level 2 Diploma in Aerospace and Aviation Engineering (Foundation Competence)	601/7289/7
	EAL Level 3 Diploma in Aerospace Manufacturing (Development Competence)	603/0051/6
Aerospace Manufacturing Electrical/ Mechanical and Systems Fitter Level 3	EAL Level 2 Diploma in Aerospace and Aviation Engineering (Foundation Competence)	601/7289/7
	EAL Level 3 Diploma in Aerospace Manufacturing (Development Competence)	603/0051/6
Aircraft Maintenance Fitter/ Technician (Fixed and Rotary Wing) Level 3	EAL Level 2 Diploma in Aerospace and Aviation Engineering (Foundation Competence)	601/7289/7
	EAL Level 3 Diploma in Aviation Maintenance (Development Competence)	603/0372/4
Maritime Electrical Fitter – Level 3	EAL Level 2 Diploma in Maritime Defence (Foundation Competence)	603/0050/4
Maritime Mechanical Fitter – Level 3	EAL Level 2 Diploma in Maritime Defence (Foundation Knowledge)	603/2311/5
Maritime Fabricator – Level 3	EAL Level 3 Diploma in Maritime Defence (Development Competence)	603/2288/3
Maritime Pipeworker – Level 3	EAL Level 3 Diploma in Maritime Defence (Development Knowledge)	603/2459/4
Machinist – Advanced Manufacturing Engineering Level 3	EAL Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence)	601/7179/0
(Replacement standard – Machining Technician Level 3 – ST1305 IFATE approval, for new starts from the 1st Sept 2022)	EAL Level 2 Diploma in Machining (Foundation Knowledge)	601/9034/6
	EAL Level 3 AME–Machinist (Development Competence)	603/1034/0
	EAL Level 3 Machinist (Development knowledge)	603/1033/9

Standard	Qualification Title	Qualification Number
Mechatronics Maintenance Technician Level 3	EAL Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence)	601/7179/0
	EAL Level 3 Diploma in Advanced Manufacturing and Engineering – Mechatronics Maintenance Technician (Development Competence)	603/3845/3
	EAL Level 3 Diploma & Extended Diploma in Advanced Manufacturing Engineering (Development Knowledge)	Diploma – 603/1353/5 Ex Diploma – 603/1354/7
Product Design and Development Technician Level 3	EAL Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence)	601/7179/0
	EAL Level 3 Diploma in Advanced Manufacturing and Engineering – Product Design and Development Technician (Development Competence)	603/0926/X
	EAL Level 3 Diploma & Extended Diploma in Advanced Manufacturing Engineering (Development Knowledge)	Diploma – 603/1353/5 Ex Diploma – 603/1354/7
Toolmaker & Tool and Die Maintenance Technician Level 3	EAL Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence)	601/7179/0
	EAL 3 Level Diploma in AME-Toolmaker & Tool and Die Maintenance Technician (Development Competence)	603/1221/X
	EAL Level 3 Diploma & Extended Diploma in Advanced Manufacturing Engineering (Development Knowledge)	Diploma – 603/1353/5 Ex Diploma – 603/1354/7
Technical Support Technician Level 3	EAL Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence)	601/7179/0
	EAL Level 3 AME-Technical Support Technician (Development Competence)	603/2290/1
	EAL Level 3 Diploma & Extended Diploma in Advanced Manufacturing Engineering (Development Knowledge)	Diploma – 603/1353/5 Ex Diploma – 603/1354/7

## Other Standards

Standard	Qualification Title	Qualification Number
Lean Manufacturing Operative Level 2 – ST0420	Level 2 Diploma in Manufacturing (Knowledge and Skills)	603/3589/0
Engineering Operative Level 2 – ST0537	EAL Level 2 Diploma in Engineering Operations (Skills)	603/3220/7 Certificate – 603/3194/X
	EAL Level 2 in Engineering Operations (Knowledge)	Diploma – 603/3195/1
Engineering Fitter Level 3 – ST0432	EAL Level 3 Diploma & Extended Diploma in Advanced Manufacturing Engineering (Development Knowledge)	Diploma – 603/1353/5 Ex Diploma – 603/1354/7
	EAL Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence) Non mandated – developed to support standard	601/7179/0
Maintenance and Operations Engineering Technician (MOET) Level 3 – ST0154	EAL Level 3 Diploma & Extended Diploma in Advanced Manufacturing Engineering (Development Knowledge) Non mandated – developed to support standard	Diploma – 603/1353/5 Ex Diploma – 603/1354/7
	EAL Level 3 Diploma & Extended Diploma in Engineering Technologies Non mandated – developed to support standard	Diploma – 601/5801/3 Ex Diploma – 601/5802/5
	EAL Level 3 Technical Extended Diploma in Engineering Technologies Non mandated – developed to support standard	603/0564/2
	EAL Level 3 Diploma in Advanced Manufacturing and Engineering – Mechatronics Maintenance Technician (Development Competence) Non mandated – developed to support standard	603/3845/3
	EAL Level 3 NVQ Diploma in Engineering Maintenance Non mandated – developed to support standard	501/0544/9
Engineering Design and Draughtsperson Level 3 – ST0164	EAL Level 3 NVQ Extended Diploma in Engineering Technical Support	600/9794/2

## 22 Qualifications, certification and skills solutions by engineers for engineering success

Standard	Qualification Title	Qualification Number
Machining Technician Level 3 – ST1305	EAL Level 3 Extended Diploma in Machining (Development Knowledge)	610/0793/6
Replacement for Machinist Level 3 – ST0457	EAL Level 2 Diploma in Machining (Foundation Knowledge) Non mandated – developed to support standard	601/9034/6
	EAL Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence) Non mandated – developed to support standard	601/7179/0
	EAL Level 3 AME-Machinist (Development Competence) Non mandated – developed to support standard	603/1034/0
Metal Fabricator – Level 3 – ST0607	EAL Level 3 Diploma & Extended Diploma in Advanced Manufacturing Engineering (Development Knowledge)	Diploma – 603/1353/5 Ex Diploma – 603/1354/7
	EAL Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence) Non mandated – developed to support standard	601/7179/0
	EAL Level 3 AME-Fabricator Welder (Development Competence) Non mandated – developed to support standard	603/2621/9
Survival Equipment Fitter Level 3 – ST0015	EAL Level 2 Diploma in Aerospace and Aviation Engineering (Foundation Competence)	601/7289/7
	EAL Level 3 Diploma in Aviation Maintenance (Development Competence)	603/0372/4
Lift and Escalator Electromechanic Level 3 – ST0252	EAL Level 3 NVQ Diploma in Engineering Maintenance (Development Competence)	501/0544/9
	EAL Level 3 NVQ Diploma in Installation and Commissioning (Development Competence)	501/07332/1
Aircraft Certification Technician Level 4 – ST0019	EAL Level 2 Diploma in Aerospace and Aviation Engineering (Foundation Competence)	601/7289/7
	EAL Level 4 Aerospace and Aviation (Development Competence)	603/5083/0
Control/Technical Support Engineer Level 6 – ST0023	EAL Level 4 Diploma in Engineering and Advanced Manufacturing (Development Competence) Non mandated – developed to support standard	601/8618/5

Standard	Qualification Title	Qualification Number
Electrical/Electronic Technical Support Engineer Level 6 - ST0024	EAL Level 4 Diploma in Engineering and Advanced Manufacturing (Development Competence) Non mandated – developed to support standard	601/8618/5
Manufacturing Engineer Level 6 - ST0025	EAL Level 4 Diploma in Engineering and Advanced Manufacturing (Development Competence) Non mandated – developed to support standard	601/8618/5
Aerospace Engineer (Degree) Level 6 - ST0010	EAL Level 2 Diploma in Aerospace and Aviation Engineering (Foundation Competence)  EAL Level 4 Diploma in Engineering and Advanced Manufacturing (Development Competence)	601/7289/7  601/8618/5
Product Design and Development Engineer Level 6 - ST0027	EAL Level 4 Diploma in Engineering and Advanced Manufacturing (Development Competence) Non mandated – developed to support standard	601/8618/5



## Construction & Building Services

Title	Number	England	Wales	Northern Ireland	Scotland	Notes
<b>Plumbing and gas</b>						
EAL Level 2 NVQ Diploma in Plumbing and Heating	501/1752/X	Yes		Yes		Apprenticeship (NI Only).
EAL L3 Diploma in Plumbing and Domestic Heating	603/4028/9	Yes				Apprenticeship.
EAL Diploma in Gas Engineering at SCQF Level 6	R66404				Yes	Apprenticeship.
<b>Electrical</b>						
EAL Level 3 Electrotechnical Qualification	601/7345/2	Yes		Yes		Apprenticeship.
EAL Level 3 Electrotechnical in Dwellings	610/1335/3	Yes				
EAL Level 3 NVQ Diploma in Installing Electrotechnical Systems and Equipment (Buildings, Structures and the Environment)	501/1605/8	Yes		Yes		Adult learner loan fund available and L3 Free Courses for Jobs (England).
EAL Level 3 Electrotechnical Experienced Worker	603/5982/1	Yes	Yes	Yes		Adult learner loan fund available in England.
EAL Level 3 Electrotechnical in Dwellings Experienced Worker	610/2859/9	Yes	Yes			Adult learner loan fund available in England.
EAL Level 3 Certificate in Power Supply and Distribution Cabling	603/6345/9	Yes				
<b>Fire and security</b>						
EAL Level 3 NVQ Diploma in Providing Electronic Fire and Security Systems	603/6194/3	Yes	Yes	Yes		Apprenticeship. It is also used with the fire-experienced worker route.
EAL Level 3 Diploma in Providing Electronic Fire and Security Systems	603/6618/7		Yes	Yes		Apprenticeship.
<b>Construction</b>						
EAL Level 2 NVQ Certificate in Plant Operations (Construction)	601/7790/1	Yes		Yes		Local flexibilities funding available.

EAL is the sole provider of BSE apprenticeship qualifications in Wales. For information about these, please refer to [www.skillsforwales.wales](http://www.skillsforwales.wales)



## 7. Adult (19+) qualifications in development in response to reforms

### Engineering and manufacturing qualifications (19+)

EAL has submitted the five following qualifications for adult learners, which will be on offer from 2025. The qualifications have been aligned to the educational standards in brackets.

- EAL Level 3 Technical Occupational Entry in Machining (STI305 – Machining Technician)
- EAL Level 3 Technical Occupational Entry in Metal Fabrication (ST0607 – Metal Fabricator)
- EAL Level 3 Technical Occupational Entry in Mechanical Engineering Principles (ST0432 – Engineering Fitter)
- EAL Level 3 Technical Occupational Entry in Electrical Engineering Principles (ST0432 – Engineering Fitter)
- EAL Level 3 Technical Occupational Entry in Mechatronics (ST0457 – Engineering Technician)

The five qualifications will have a single common core, assessed externally – and possibly internally – by two multiple-choice question banks.

There will be one or two tasks to assess the practical units. In addition, there may be a knowledge test – but the assessment will be skills focused.

If an adult learner chooses to progress to an apprenticeship, the units can be mapped onto a non-programme qualification.

[On the next page](#) there is an example of the qualification structure.

## Level 2 qualifications in development are as follows (standard reference in brackets):

The offering we've submitted for approval combines mandatory core units with mandatory occupational specialism units.

We've considered common units used by centres along with pathways that provide learners with the confidence and competence needed to progress onto the next stage of their journey based on their occupation of choice.

- EAL Level 2 Technical Occupational Entry in Fabrication and Welding (ST0537 – Engineering Operative)
- EAL Level 2 Technical Occupational Entry in Electrical Engineering (ST0537 – Engineering Operative)
- EAL Level 2 Technical Occupational Entry in Machining (ST0537 – Engineering Operative)
- EAL Level 2 Technical Occupational Entry in Technical Support (ST0537 – Engineering Operative)
- EAL Level 2 Technical Occupational Entry in Engineering Maintenance (ST0537 – Engineering Operative)

**We aim to develop further products to add to and expand this offer.**



## Construction & Building Services Engineering qualifications

The following BSE qualifications for adult learners have been submitted to the Institute for Apprenticeships & Technical Education (IfATE) for approval, scheduled for delivery in 2025. The standard reference is in brackets.

- EAL Level 3 Technical Occupational Entry in Electrical Installation and Maintenance – Diploma (ST0152)
- EAL Level 3 Technical Occupational Entry in Plumbing and Domestic Heating – Diploma (ST0303)
- EAL Level 3 Technical Occupational Entry in the Installation of Electric Vehicle Charging Equipment – Award (builds on ST0152)

These will be funded if you have an ESFA contract at your college for 19+ adults. The courses are ideal for day-release programmes or night school.

The following table outlines the structure of the electric installation and maintenance diploma, as an example of how we've designed these qualifications.

TE3-03	Practical and Procedures for Planning and Overseeing Electrical Work Activities
TE3-04	Design and Installation Practices and Procedures
TE3-06	Practices and Procedures for Inspection, Testing and Commissioning
TE3-07	Practices and Procedures for Fault for Diagnosis and Rectification
TE3-08	Electrical Scientific Principles
18ED3-02	Understand the Requirements of electrical installations BS7671-2018 (2022)

We are also working on a range of new Construction & Building Services Engineering qualifications not related to the post-16 reforms.

# 8. EAL Approved

## Approve My Course

Build industry credibility for bespoke but unregulated courses by showing you offer training that can be trusted, independently validated by EAL Approved.

## Course Accreditation with EAL Approved

EAL Approved provides validation and certification services to assure learners, employers, and the industry as a whole that your course meets the standards of a globally recognised name in engineering and advanced manufacturing.

Following your initial enquiry, we'll assign a dedicated Account Manager to help you through the accreditation process.

Our expert evaluators will help you review your course content so that it delivers against your learning objectives. We will also support you in ensuring that quality assurance activities are carried out in the correct way needed to secure EAL endorsement for your training.

## Benefits:

### **Endorsement from a Trusted Brand**

When your course is EAL Approved, it's backed by a globally recognised institution. We've been setting the standard for training in Engineering and advanced manufacturing since 1992.

### **Independent Validation**

With EAL Approved accreditation, you're saying with authority that you offer training the industry can trust. We evaluate courses to a rigorous standard set by engineers, for engineering success.

### **Best-in-Class Support**

EAL strives to provide service excellence and support to our customers by placing them at the heart of everything we do. We assign a dedicated Account Manager to every client, guiding them from enquiry and application to appraisal and accreditation.

### **Dual-Branded Certification**

EAL Approved stamps your course with quality. Our certification portal allows delivery centres to issue dual-branded digital certificates, giving well-earned recognition to the achievements of you and your users.

# 9. About EAL

Qualifications, assessments and skills solutions by engineers for engineering success.

EAL is the specialist Awarding Organisation, End Point Assessment Organisation and skills partner for the engineering and manufacturing industry. Our qualifications, assessments and skills solutions are designed and supported by engineers for engineering success.

We're dedicated to making sure people and employers in our engineering and manufacturing sectors have the right skills at the right time; to keep up with evolving industry needs, new technologies and the net-zero transition..



Part of the  
**Enginuity** Group

### **Apprenticeships and Standards, qualifications, programmes and courses to deliver the right skills at the right time.**

EAL is trusted by 1.3 million learners, colleges and private training providers, employers of all sizes, sector bodies, and government.

We understand the differences and complexities across the four nations we serve; and help to ensure that Apprenticeships and Standards, qualifications, training programmes and courses keep pace with change.

EAL represents employers in policy discussions around technical education and works collaboratively with them to create and review standards or frameworks for qualifications, training programmes and courses.

### **Excellent service and support.**

We strive to provide service excellence and support to our customers and learners, regardless of level, by placing them at the heart of everything we do.

Whether that's through high-quality support materials, every centre having a dedicated External Quality Assurer to provide advice on and support on assessment policy and process, Industry Managers helping employers design and manage the right portfolio of products for them, Technical Advisors helping centres and training providers get the most out of our products, or access to our many subject matter experts.

### **Ensuring skills are evidenced and trusted.**

Learners want their skills to be recognised by employers; and employers want to know that a qualification, apprenticeship or training programme is providing them with the skills they need, backed by the consistency and rigour of Occupational Standards in England and National Occupational Standards in Scotland, Wales, and Northern Ireland.

EAL's qualifications, certification, licence to practice, adult modular upskilling, End Point Assessment, and EAL Approved recognition services are designed and maintained by industry experts who understand employers' current and future needs.

### **Choose EAL, the specialists who really understand the skills needs of industry.**

Our decision-making is driven by what's in the best interests of engineering and manufacturing businesses.

We constructively and collaboratively challenge the way things are done; we apply the same quality to everything we do regardless of the size of the market it serves; we reinvest our surplus in charitable activities, including supporting *Enginuity*, our parent charity that uses data about engineering skills needs to create new solutions for employers and the sector.


EAL does all of this so that engineers and employers can seize opportunities for growth; while working on the solutions needed for a more sustainable world.

# We're happy to help

**EAL is committed to delivering both value and high-quality support to all its customers, which is why we continually strive to make it even easier to work with us.**

## **Customer experience enquiries**

If you'd like to speak to someone about delivering EAL qualifications, becoming an EAL Recognised Centre, or for any other enquiries, please contact our friendly Customer Experience Team, Monday to Friday, 8 am to 5 pm.

 +44 (0)1923 652400

 [customer.experience@eal.org.uk](mailto:customer.experience@eal.org.uk)



Part of the  
**Enginuity Group**