



Part of the
Enginuity Group

Curriculum Planning

Guide 2024/25



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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. Recent reforms in England affect post 16 qualifications at level 3 and below, mainly through the defunding of technical qualifications that overlap with T Levels and the introduction of new publicly funded qualifications at level 3 and below through a new approval process to ensure they have a clear purpose and lead to good progression outcomes.

We have actively engaged with the reforms in England and have made a significant investment in developing new qualifications to ensure the continuity of funded routes into employment or progression for learners in the Engineering & Manufacturing and Building Services Engineering sectors.

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 2025. Level 3 Engineering & Manufacturing qualifications that overlap with T Levels will also 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.

In July 2024, the Government announced a review of post-16 qualification reform at Level 3 and below. The information on this page represents the reformed landscape, which maybe subject to changes following the review’s outcomes. EAL will continue to support our customers through changes stemming from the new Government’s skills review or any other policy changes.

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.

| | | |
|-----------------|--|---|
| T Levels | Technical occupational entry and technical occupational progression qualifications in areas not served by T Levels | Technical additional specialist qualifications |
| Apprenticeships | | Technical cross-cutting function qualifications |

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.

| | | | |
|-----------------|--|--|--|
| T Levels | Technical occupational entry and technical occupational progression qualifications | Technical employer proposed qualifications | Technical additional specialist qualifications, including in areas more appropriate for adults |
| Apprenticeships | | | Technical cross-cutting function qualifications |

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

With the election of the new government in July 2024, there has been increased speculation about the future of T Levels. As we wait to see what the new government has planned for vocational education, EAL remains committed to providing T Level qualifications in Engineering and Manufacturing and Building Services Engineering.

Further support with reforms

To ensure the continuity of funded routes into employment or progression for learners in the Engineering & Manufacturing and Building Services Engineering sectors, we have made a significant investment in developing new qualifications .

Information on our new funded qualifications in response to the reforms is contained in this Curriculum Planning Guide. A list of these qualifications is also available on the [Qualification reform in England](#) page of our website along with resources and events to support our valued centres in England through these changes.

Finally, don't forget to sign up to [EAL's Spotlight newsletter](#) for updates, including news about qualifications.

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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.

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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

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Level 3 Offer

| Qualification Title | QAN | GLH | First Teach (Funded for new starts) | | Further info |
|---|------------|------|-------------------------------------|---------|--|
| | | | Sept 24 | Sept 25 | |
| EAL Level 3 Certificate in Engineering Technologies* | 60158001 | 225 | Yes | No | (Overlaps with T levels from 1st Aug 2025) |
| EAL Level 3 Subsidiary Diploma in Engineering Technologies* | 60157999 | 375 | Yes | No | (Overlaps with T levels from 1st Aug 2025) |
| EAL Level 3 Diploma in Engineering Technologies* | 60158013 | 666 | Yes | No | (Overlaps with T levels from 1st Aug 2025) |
| EAL Level 3 Extended Diploma in Engineering Technologies* | 60158025 | 750 | Yes | No | (Overlaps with T levels from 1st Aug 2025) |
| EAL Level 3 Diploma in Engineering Technology* | 501/1130/9 | 600 | 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 | No | (Overlaps with T levels from 1st Aug 2025) |
| EAL Level 3 Advanced Diploma in Engineering Technology | 6014564X | 450 | Yes | No | Overlaps with T levels from 1st Aug 2025) |
| EAL Level 3 Technical Extended Diploma in Engineering Technologies | 603/0564/2 | 1095 | Yes | No | Overlaps with T levels from 1st Aug 2025) |
| EAL Level 3 Extended Diploma in Machining (Development Knowledge) | 610/0793/6 | 585 | 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 | Funded for new starts |
| | | | Sept 24 |
| EAL Level 3 Diploma in Domestic Plumbing and Heating | 600/8595/2 | 468 | Yes |
| EAL Level 3 Advanced Diploma in Plumbing | 601/4567/5 | 363 | Yes |
| EAL Level 3 Diploma in Gas Utilisation: Core Skills and Knowledge | 600/0577/4 | 410 | Yes |
| EAL Level 3 Diploma In Electrical Installation | 600/9331/6 | 459 | No |
| EAL Level 3 Advanced Diploma in Electrical Installation | 601/4563/8 | 459 | Yes |



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

Developed in England 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)

Developed in Wales as part of sector reform expected in Autumn 2024.

- EAL Level 3 Extended Progression in Electrotechnical Installation (Diploma)

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



Funded Adult Qualifications

Unlock Potential with the ASF: 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.

Adult Skills Fund (ASF) 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 ASF 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, or SWAP. Please always refer to the current official funding sources of information.

5. Qualifications supported by current Adult Skills Fund and Short Awards

Engineering & Manufacturing qualifications 2024/25

| Qualification Name | Local Flexibilities Funding Available | Legal Entitlement L2 Funding Available |
|--|---------------------------------------|--|
| Level 1 | | |
| 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 | |
| Level 2 | | |
| 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.

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| Qualification Name | Advanced Learner Loans Funding Available | L3 Free Courses for Jobs Funding Available |
|--|--|--|
| Level 3 | | |
| 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 2024

| Qualification Name | Local Flexibilities Funding Available | Legal Entitlement L2 Funding Available |
|---|---------------------------------------|--|
| Level 1 | | |
| EAL Level 1 Award in Health and Safety in a Construction Environment 603/2310/3 | Yes | |
| EAL Level 1 Diploma In Plumbing 600/8552/6 | Yes | |
| EAL Level 1 Diploma In Electrical Installation 601/0409/0 | Yes | |

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| Qualification Name | Local Flexibilities Funding Available | Legal Entitlement L2 Funding Available |
|---|---------------------------------------|--|
| Level 2 | | |
| 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 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 |
|---|--|--|--|
| Level 3 | | | |
| 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 |

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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 |
|--|
| Level 2 |
| EAL Level 2 Award in Fundamental Inspection, Testing and Initial Verification 603/0144/2 |
| Level 3 |
| Electrotechnical |
| 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 |
| Electrotechnical / Fire safety |
| 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) |
| EAL Level 3 Award in the Inspection of Fire Doors (Number TBC) |
| Renewables and environmental technologies |
| 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 |
| Level 4 |
| 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 2024/25

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 (Replacement standard – Machining Technician Level 3 – ST1305 IFATE approval, for new starts from the 1st Sept 2022) | EAL Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence) | 601/7179/0 |
| | 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 |

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| 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) | 601/7289/7 |
| | EAL Level 4 Diploma in Engineering and Advanced Manufacturing (Development Competence) | 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 |



Building Services Engineering

| Title | Number | England | Wales | Northern Ireland | Scotland | Notes |
|--|-------------------|------------|-------|------------------|----------|---|
| Plumbing and gas | | | | | | |
| EAL Level 2 NVQ Diploma in Plumbing and Heating | 501/1752/x | Yes | | Yes | | Available in England, and NI (Apprenticeship) |
| EAL L3 Diploma in Plumbing and Domestic Heating | 603/4028/9 | Yes | | | | Apprenticeship. |
| EAL L3 Diploma in Plumbing and Domestic Heating* | Number TBC | Yes | | | | |
| EAL Diploma in Gas Engineering at SCQF Level 6 | R66404 | | | | Yes | Apprenticeship (Scotland) |
| Electrical | | | | | | |
| 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 | | | | |
| Fire and security | | | | | | |
| 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. |

EAL is the sole provider of BSE apprenticeship qualifications in Wales. For information about these, please refer to www.skillsforwales.wales

*For Version 1.1 of the apprenticeship standard (ST0303)

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 later, 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



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