



Part of the
Enginuity Group

Qualification Manual

EAL Level 3 Award in the Requirements for the
Installation of Electric Vehicle Charging Points
Qualification Number: 603/3929/9

Issue 2.1

www.eal.org.uk



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1.0 About EAL

For over fifty years, EAL has been the specialist awarding organisation for engineering, manufacturing, building services and related sectors. Developed to the highest technical standards, our qualifications reflect ever-changing industry and regulatory needs. We support the providers of our qualifications with an unparalleled level of service to ensure that learners are well prepared to take the next step in their journeys, whether study, an apprenticeship or work.

Through industry partnerships with EAL centres and training providers, decades of experience supporting our core sectors, and our role as part of the Enginuity Group, we have built unrivalled knowledge and understanding of employer skills needs. As a result, EAL's skills solutions, including apprenticeship End-Point Assessment, External Quality Assurance and qualifications are respected and chosen by employers to deliver real lifelong career benefits for all our learners. That's why in the last ten years, 1.2 million people across the UK have taken EAL qualifications.

1.1 Equal Opportunities and Diversity

EAL expects its centres to enable learners to have equal access to training and assessment for qualifications in line with equalities legislation. Further details can be located in the EAL Equal Opportunities and Diversity Policy:

<http://www.eal.org.uk/centre-support/centre-support/policies-and-important-documents>

1.2 Customer Experience and Feedback

Customer Experience is a fundamental part of EAL's commitment to you. EAL aims to ensure that all customers receive a high-quality efficient service. We are always interested in feedback and if you have any comments or feedback on our qualifications, products or services, please contact the Customer Experience team:

EAL Customer Experience

Tel: +44 (0)1923 652 400

Email: Customer.Experience@eal.org.uk

2.0 Introduction to the Qualification

What is this qualification?

This award covers the underpinning technical requirements for the installation of electric vehicle charging points. It follows the IET Code of Practice for Electric Vehicle Charging Equipment Installation and BS 7671.

Who is this qualification for?

Competent electricians who wish to gain an understanding of the requirements for electric vehicle charging equipment installations, and who are already conversant in inspection and testing and the wiring regulations. Please refer to Section 5.3 for entry requirements.

What does this qualification cover?

The qualification covers the IET Code of Practice for Electric Vehicle Charging Equipment Installation.

The award comprises of one unit which has 7 Guided Learning Hours (GLH). It has a Total Qualification Time (TQT) 8 hours (notional time required by the learner to complete the qualification).

2.1 Support for this Qualification

This qualification is regulated at Level 3, and supported by the industry.

2.2 Qualification Support Materials

The following material is available for this qualification:

- Delivery pack: contains the qualification unit and the relevant tutor guidance.

All materials can be accessed by EAL registered Centres from the EAL website:

www.eal.org.uk

2.3 Achievement of the Qualification

The qualification is achieved when the unit assessment (on-line examination) has been successfully completed. The centre will then be able to apply for the learner's certificate. The overall grading type for this qualification is Pass (or Fail).

3.0 Qualification Structure

3.1 Rule of Combination

This qualification will be obtained by the learner once they have completed the single mandatory unit below. It has a Total Qualification Time (TQT) of 8 hours (notional time required by the learner to complete the qualification).

Mandatory Units:

EAL Code	Unit Title	GLH	Ofqual Code
EV3/01	Understand the Requirements for the Installation of Electric Vehicle Charging Points	7	H/617/3992

4.0 Centre and Qualification Approval

Centres wishing to run the qualification will need to comply with this Qualification Manual and EAL's centre recognition criteria for this qualification upon accreditation and launch. Centres must also put in place the appropriate physical and human resources and administration systems to effectively run the qualification. Please refer to Section 5 for the requirements of centre staff involved in the delivery of the qualification.

For existing EAL centres to put the qualification on your centre remit:

- To add this qualification to your centre qualification remit, create and complete a qualification approval application form in Smarter Touch and submit to EAL.

For non EAL centres to gain centre approval to run the qualification:

- Please contact EAL Customer Experience:

EAL Customer Experience

Tel: +44 (0)1923 652 400

Email: Customer.Experience@eal.org.uk

5.0 Profiles and Requirements

The staff involved in the delivery of this qualification must meet the requirements in this section.

5.1 Staff Responsible for Registering and Certification of Learners

Centres are required to appoint a suitable member of staff who can take responsibility for registering learners onto qualifications, submitting entries for assessments to EAL, and taking receipt of external assessment procedures (if appropriate). They may also be responsible for applying to EAL for learner certificates. The role may be undertaken by the same person who undertakes quality assurance.

5.2 Teaching Staff

These personnel must have the necessary knowledge and understanding of the assessment criteria and learning outcomes they are delivering. They must also understand the structure and content of the qualification.

It is a recommendation that the teaching staff will:

- Have 2 years' experience in teaching/training
- Or:
- Are working towards an appropriate teaching/training qualification (e.g., Cert Ed or Learning & Development trainer units)
- Or:
- Hold an appropriate teaching/training qualification (e.g., Cert Ed or Learning & Development trainer units)

5.3 Learners

Learners must be conversant with the relevant wiring regulations, and initial verification and commissioning. This can be demonstrated by the learner holding relevant qualifications in BS 7671, and inspection and testing.

IMPORTANT ENTRY REQUIREMENT UPDATE FOR REGISTRATIONS FROM THE

01/09/23: To take this qualification learners must be competent electricians and hold one of the qualifications listed below, with the relevant AM test; (e.g. AM2/S/E/D).

- Level 3 NVQ Diploma in Installing Electrotechnical Systems and Equipment (Buildings, Structures and the Environment)
- Level 3 NVQ Diploma in Electrotechnical Services (Electrical Maintenance)
- Level 3 Electrotechnical Qualification
- Level 3 in Electrotechnical Services Experienced Worker
- Level 3 NVQ in Electrotechnical Services - Electrical Installation (Building and Structures)
- Level 3 Electrotechnical Experienced Worker Qualification.
- Level 3 Electrotechnical in Dwellings
- EAL Building Services Engineering (Level 3) - Electrotechnical Installation
- Equivalent historical qualifications. See EAS Table 4B/4C, and the [EAS Qualifications Guide](#)

Or they hold an ECS Gold Card, as a JIB Electrician, or Approved Electrician.

Learners must have the minimum levels of literacy and numeracy to complete the learning outcomes and assessments.

Centres should make learners with particular requirements aware of the content of the qualification and they should be given every opportunity to successfully complete the qualification. EAL will consider any reasonable suggestions for, and from, those with disabilities that would help them to achieve the learning outcomes without compromising the standards required.

Age Restrictions

Learners must be at least 18 years old.

5.4 Staff Invigilating On-Screen Examinations

Members of staff with responsibility for invigilating on-screen examinations must know, understand and comply with the 'Procedures for Conducting the Exam Component within EAL Qualifications' (EAF 1), which is published by EAL. These members of staff must also:

- Have experience in conducting and controlling exam sessions
- Or
- Be supervised by an individual experienced in conducting and controlling exam sessions

Note: A teacher/tutor who has prepared the learners for the subject of the exam must not be the sole supervisor at any time during an exam for that subject(s).

6.0 Assessment

This qualification is assessed using one on-screen multiple-choice exam only. The exam must be passed for the qualification to be awarded.

Key aspects:

- the pass mark for the exam is notionally set at 60%,
- grading for the exam is pass/fail,
- this is an open book assessment, and learners are permitted the use of the IET Code of Practice for Electric Vehicle Charging Equipment Installation,
- the test duration is 50 minutes and consists of 25 questions,
- there are no additional re-sitting constraints,
- candidates may also use a non-programmable calculator,
- a centre examination specification is given in Appendix 1.

The exam must be undertaken by the learner under controlled conditions as specified by EAL. (Refer to EAL's procedures for External Assessment contained within the Centre Operations Manual).

EAL will monitor results from the assessment.

7.0 Quality Control of Assessments

There are two major activities in which EAL interacts with the Centre in relation to the External Quality Control of Assessment for this qualification and these are:

- **Recognition:** When a Centre decides to offer the qualification, the EAL External Quality Assurer (EQA) ensures that the Centre is suitably equipped and prepared for delivery and assessment
- **Engagement:** Throughout the ongoing delivery of the qualification EAL, through EQA monitoring and other mechanisms will review the quality and consistency of assessment and internal quality assurance and recommend actions to address issues of concern

Recognition

In granting approval, EAL, normally through its EQAs, will ensure that the prospective Centre:

- Meets any procedural requirements specified by EAL
- Has sufficient and appropriate physical and staff resources
- Meets relevant health and safety and/or equality and access requirements
- Has a robust plan for the delivery, assessment and QA for the qualifications (including, where appropriate, scope for involving employers)

EAL may decide to visit the Centre to view the evidence provided.

Engagement

EAL, through EQA Engagement and other mechanisms will ensure that:

- A strategy is developed and deployed for the on-going monitoring of the centre – this will be based on an active risk assessment of the Centre, and will include details of the learner, assessor and internal quality assurer's sampling strategy and the rationale behind this
- The Centre's internal quality assurance processes are effective in learner assessment
- Outcomes of internal assessment are verified, through sampling, to ensure standards are being maintained
- Sanctions are applied to a Centre where necessary and that corrective actions are taken by the Centre and monitored by the EQA
- Reviews of EAL's external auditing arrangements are undertaken

Appendix 1: Unit Summary

Unit:EV3/01: Understand the Requirements for the Installation of Electric Vehicle Charging Points

Unit Summary

This unit covers the requirements for the installation of electric vehicle (EV) charging points and follows the IET Code of Practice for Electric Vehicle Charging Equipment Installation. It is aimed at electricians who are already conversant in inspection and testing and the wiring regulations - for example they already hold a qualification for initial verification (4337), and also for the wiring regulations.

Although this unit covers the theory aspects only, practical training on manufacturers equipment can be incorporated into the delivery to enhance a course. This could also involve circuit design, cable termination and relevant initial verification and commissioning.

Summary of Learning Outcomes

1. Understand the overview of EV charging equipment.
2. Understand the design considerations for EV charging point installations.
3. Understand the physical installation requirements for EV charging points.
4. Understand the general electrical requirements for EV charging points.
5. Understand the electrical requirements for EV charging points: dwellings.
6. Understand the electrical requirements for EV charging points: on-street installations.
7. Understand the electrical requirements for EV charging points: commercial and industrial installations.
8. Understand the Inspection, testing and maintenance requirements for EV charging points.
9. Understand the additional requirements for EV charging points.

Appendix 2: Centre Examination Specifications

Unit: EV3/01 Understand the Requirements for the Installation of Electric Vehicle Charging Points

Assessment Type: Multiple Choice
Number of Questions: 25
Time Allowed: 50 Minutes
Additional re-sitting constraints: None

The pass mark is notionally set at 60%. This is an open book exam requiring reference to IET Code of Practice for Electric Vehicle Charging Equipment Installation. Candidates may also use a non-programmable calculator.

The examination will cover the knowledge learning outcomes of the unit, as follows:

Learning Outcome	Title	Number of Questions
1	Understand the overview of EV charging equipment	3
2	Understand the design considerations for EV charging point installations	2
3	Understand the physical installation requirements for EV charging points	2
4	Understand the general electrical requirements for EV charging points	5
5	Understand the electrical requirements for EV charging points: dwellings	3
6	Understand the electrical requirements for EV charging points: on-street installations	2
7	Understand the electrical requirements for EV charging points: commercial and industrial installations	2
8	Understand the inspection, testing, and maintenance requirements for EV charging points	5
9	Understand the additional requirements for EV charging points	1
	Total:	25

Appendix 3: Qualification Amendments

EAL is committed to a policy of continuous improvement, which can sometimes result in changes being made to our publications. Whilst every effort is made to inform customers of any changes that are made it is important that centres, assessors and learners use only the latest issue of EAL publications to ensure that all the current requirements are fully met. The table below lists the amendments and the current issue number for the qualification's materials.

Publication	Amendment	Issue Number	Date
EV3/01 Unit	New publication.	1	02/01/19
	Unit updated for the 4 th Edition.	1.1	22/06/20
	Unit introductory text updated.	1.2	01/12/22
Qualification Manual	New publication.	1	02/01/19
	Qualification amendment section updated.	1.1	22/06/20
	'About EAL' section updated, and EAL Customer Experience email address updated.	1.2	17/08/21
	Document style updated.	2	01/12/22
	Important: Learner entry requirements updated in Section 5.3.		<i>(Additional entry requirements to apply from the 01/09/23 for any new registrations)</i>
	Section 5.3. Typo updated	2.1	06/02/23



Appendix 4: Learner Registration and Certification

Learners must be registered with EAL on a code which relates to the qualification -this must be completed prior to assessment. Both learner registration and certification can be completed online at the EAL Website www.eal.org.uk. For paper-based registration and certification use the appropriate forms. These are located on the EAL Website, for guidance on registration and Certification please refer to the Registration and Certification User Guide. To register the learner on the chosen qualification/pathway code:

Qualification Title	Code
EAL Level 3 Award in the Requirements for the Installation of Electric Vehicle Charging Points	603/3929/9



Part of the
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