

Qualification Manual

EAL Level 3 Award in the Requirements for Electrical Installations BS 7671:2018 603/3298/0

A background image showing a close-up of an electrical worker wearing a hard hat and safety glasses, focused on a task. The image is semi-transparent and serves as a backdrop for the title text.

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01

1.0 About EAL

Since 1964 EAL (**Excellence Achievement and Learning**) has been the specialist awarding organisation for the engineering industry and related sectors. Our commitment to partnering industry together with the focus on our core sectors gives us an unrivalled understanding of the skills employers need. This results in qualifications that carry weight and respect with employers which deliver real career benefits for learners.

We support the delivery network with an unparalleled level of service to ensure that learners are well prepared for the roles they plan to take on. Through its programme of continuous improvement, EAL strives to meet the demand from employers for high performing, high quality products.

1.1 Equal opportunities and diversity

EAL expects its centres to enable Learner's to have equal access to training and assessment for qualifications in line with the Equality Act 2010 and protected characteristics. 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 service and feedback

Customer service 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.care@eal.org.uk

2.0 Introduction to the Qualification

What is this qualification?

This award gives the learner an understanding of the application of the IET Wiring Regulations Eighteenth Edition. It provides a facility for individuals working in the electrotechnical sector to develop and/or enhance their knowledge of the Requirements for Electrical Installation.

Who is this qualification for?

- Personnel involved in the electrotechnical sector such as electricians, designers and inspectors who wish to update their knowledge to the IET Wiring Regulations Eighteenth Edition.
- Learners who wish to gain an understanding of BS 7671.

What does this qualification cover?

The qualification covers the full content of BS 7671: IET Wiring Regulations Eighteenth Edition. The Regulations apply to the design, erection and verification of electrical installations, and also additions and alterations to existing installations.

The award comprises of one unit which has 35 Guided Learning Hours (GLH). It has a Total Qualification Time (TQT) 40 hours (notational time required by the learner to complete the qualification).

2.1 Support for this Qualification

This qualification is:

- regulated/accredited at level three,
- is recognised by the electrical industry.

2.2 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/Fail.

2.3 Progression Opportunities

This qualification relates to various electrotechnical qualifications including:

- EAL Level 3 NVQ Diploma in Installing Electrotechnical Systems and Equipment (Buildings, Structures and the Environment),
- EAL Level 3 Electrotechnical Qualification,
- EAL Level 3 NVQ Diploma in Electrotechnical Services (Maintaining Electrotechnical Systems),
- EAL Qualifications in environmental technology systems,
- EAL Level 3 Award In the In-Service Inspections and Testing of Electrical Equipment (PAT),
- EAL Level 4 Award in the Design and Verification of Electrical Installations,
- EAL qualifications in inspection and testing.

Further information can be obtained from the EAL Website or alternatively contact:

EAL Customer Experience

Tel: +44 (0)1923 652400

Email: customer.care@eal.org.uk

2.4 Qualification Support Materials

The following material is available for this qualification:

- **Delivery pack:** contains the qualification unit and all relevant tutor guidance relating to the delivery and assessment.

All materials can be accessed by EAL registered Centres from the EAL Website www.eal.org.uk

3.0 Rule of Combination (Qualification Structure)

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 40 hours (notational time required by the learner to complete the qualification).

Qualification Unit: *Must be completed:*

Unit	Unit title	GLH	Ofqual Code
18ED3/01	Understand the Requirements of Electrical Installations BS 7671:2018	35	H/617/0882

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 the EAL Customer Experience Department who will be delighted to hear from you:

Tel: +44 (0)1923 652400

Email: customer.care@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 the Certification of Learners

Centres are required to appoint a suitable member of staff who can take responsibility for registering learners onto the qualification, submitting entries for exams to EAL. They may also be responsible for applying to EAL for learner certificates.

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 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).

5.4 Learners

There are no formal entry requirements for this qualification; however centres should ensure that the learner has the potential to achieve the qualification. A 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 16 years old.

6.0 Assessment

This qualification is assessed by the use of 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 BS 7671 only,
- the IET On Site Guide is not permitted,
- the test duration is 120 minutes and consists of 60 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 External Quality Control of Assessment

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: Centre Examination Specification

Unit: 18ED3/01 Understand the Requirements of Electrical Installations BS 7671:2018

Assessment type: Multiple choice

Number of questions: 60

Time allowed: 120 minutes

The pass mark is notionally set at 60%

Additional re-sitting constraints: None

This is an open book exam requiring reference to IET Wiring Regulations Eighteenth Edition published by the Institute of Engineering and Technology

Candidates may also use a non-programmable calculator.

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

Learning Outcome	Learning Outcome Title	Number of Questions
1	Understand the scope, object and fundamental principles of BS7671	4
2	Understand the definitions used within BS 7671	2
3	Understand how to assess the general characteristics of electrical installations	6
4	Understand requirements of protection for safety for electrical installations	15
5	Understand the requirements for selection and erection of equipment for electrical installations	14
6	Understand the requirements of inspection and testing of electrical installations	4
7	Understand the requirements of special installations or locations as identified in BS 7671	10
8	Understand the information contained within the appendices of BS 7671	5
	Totals	60

Note: The question allocation to each of the learning outcomes in this exam is the same for all Awarding Organisations offering the EAL Level 3 Award in the Requirements for Electrical Installations BS 7671:2018. This was agreed with the ECS/JIB and the ECA.

Appendix 2: 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 N^o	Effective From
18ED3/01 Unit	New publication	1	01.07.18
Qualification Manual	New publication	1	01.07.18

Appendix 3: 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 on line at the EAL Website www.eal.org.uk. For paper based registration and certification use the appropriate forms 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:

Qualification Title	Code
EAL Level 3 Award in the Requirements for Electrical Installations BS 7671:2018	603/3298/0

For further information please contact EAL Customer Experience +44 (0)1923 652 400.

Centres that already offer any of the qualifications listed below (and have no issues) will be granted automatic approval to run this qualification.

- EAL Level 3 Award In Requirements for Electrical Installations BS 7671: June 2008 (2015) 601/5321/0
- EAL Level 3 Electrotechnical Qualification 601/7345/2
- EAL Level 3 Diploma In Electrical Installation 600/9331/6
- EAL Level 3 Advanced Diploma in Electrical Installation 601/4563/8.

