

# **City & Guilds Level 3 Award in the Requirements for Electrical Installations BS 7671:2018 (2382-22)**

**March 2022 (Version 1.0)**

**Qualification Handbook**

## Qualification at a glance

<b>Subject area</b>	Electrical Installation
<b>City &amp; Guilds number</b>	2382-22
<b>Age group approved</b>	16-18, 19+
<b>Entry requirements</b>	n/a
<b>Assessment</b>	Multiple Choice online test
<b>Grading</b>	Pass / Fail
<b>Approvals</b>	Automatic Approval applies in certain cases
<b>Support materials</b>	Qualification handbook, SmartScreen
<b>Registration and certification</b>	Consult the Walled Garden/Online Catalogue for last dates

<b>Title and level</b>	<b>City &amp; Guilds number</b>	<b>Ofqual number</b>	<b>GLH</b>	<b>TQT</b>
City & Guilds Level 3 Award in Requirements for Electrical Installations BS 7671: 2018	2382-22	603/3319/4	35	40

Version and date	Change detail	Section
v1.0 March 2022	Initial version	Throughout

---

# Contents

<b>Qualification at a glance</b>	<b>2</b>
<b>Contents</b>	<b>4</b>
<b>1 Introduction</b>	<b>5</b>
Structure	6
Total Qualification Time	6
<b>2 Centre requirements</b>	<b>7</b>
Approval	7
Resource requirements	7
Learner entry requirements	8
Age restrictions	8
<b>3 Delivering the qualification</b>	<b>9</b>
Initial assessment and induction	9
Support materials	9
<b>4 Assessment</b>	<b>10</b>
<b>5 Units</b>	<b>12</b>
Structure of the units	12
<b>Unit 622 Understand the requirements of electrical installations BS 7671:2018 (2022)</b>	<b>13</b>
<b>Appendix 1 Relationships to other qualifications</b>	<b>17</b>
<b>Appendix 2 Sources of general information</b>	<b>18</b>
Useful contacts	18

# 1 Introduction

This document tells you what you need to do to deliver the qualification:

Area	Description
Who is the qualification for?	This qualification is primarily aimed at practising electricians with relevant experience and other allied professionals eg surveyors, consultants and other trades needing to update and enhance their understanding of IET Wiring Regulations. It is also suitable for anyone wishing to demonstrate an understanding of the IET 18th Edition Wiring Regulations (BS 7671).
What does the qualification cover?	The IET Wiring Regulations (BS 7671) are the definitive standards for the electrical industry in respect of safe use and operation of electrical equipment and systems. They set requirements and operating criteria for the UK and correspond to EC standards and are recognised by the British Standards Institute as a British Standard (BS 7671). It is intended to ensure that individuals are conversant with the format, content and application of the Requirements for Electrical Installations BS 7671:2018.
What opportunities for progression are there?	It allows candidates to progress into employment or to the following City & Guilds qualifications: <ul style="list-style-type: none"><li>• City &amp; Guilds Level 2 Certificate in Fundamental Inspection, Testing and Initial Verification (2392-10)</li><li>• City &amp; Guilds Level 3 Certificate in Building Regulations for Electrical Installation Contractors in Dwellings (2393-10)</li><li>• City &amp; Guilds Level 3 Award in Initial Verification (2391-50)</li><li>• City &amp; Guilds Level 3 Award in the Periodic Inspection (2391-51)</li><li>• City &amp; Guilds Level 3 Award in Inspection and Testing (2391-52)</li><li>• City &amp; Guilds Level 4 Higher Professional Diploma in Building Services Engineering (4467-04)</li></ul>
Who did we develop the qualification with?	This qualification was developed by City & Guilds in conjunction with members of the electrical industry including NICEIC, ECA and is endorsed by Employers.

## Structure

To achieve the City & Guilds Level 3 Award in Requirements for Electrical Installations BS 7671: 2018 learners must achieve one mandatory unit.

City & Guilds unit number	Unit title
<b>Mandatory</b>	
622	Understand the requirements of electrical installations BS 7671: 2018 (2022)

## Total Qualification Time

Total Qualification Time (TQT) is the number of notional hours which represents an estimate of the total amount of time that could reasonably be expected for a learner to achieve and demonstrate the achievement of the level of attainment necessary for the award of a qualification.

TQT is comprised of the following two elements:

- 1) The number of hours which an awarding organisation has assigned to a qualification for Guided Learning, and
- 2) an estimate of the number of hours a Learner will reasonably be likely to spend in preparation, study or any other form of participation in education or training, including assessment, which takes place as directed by - but, unlike Guided Learning, not under the Immediate Guidance or Supervision of - a lecturer, supervisor, tutor or other, appropriate provider of education or training.

Title and level	GLH	TQT
City & Guilds Level 3 Award in Requirements for Electrical Installations BS 7671: 2018	35	40

## 2 Centre requirements

### Approval

If your Centre is approved to offer City & Guilds Level 3 Award in The Requirements for Electrical Installations BS 7671: 2018 (2382-18) you will be automatically approved to offer the City & Guilds Level 3 Award in Requirements for Electrical Installations BS 7671:2018 (2382-22).

To offer this qualification, new centres will need to gain both centre and qualification approval. Please refer to the document **Quality Assurance Standards: Centre Approval Process** for further information.

Centre staff should familiarise themselves with the structure, content and assessment requirements of the qualification before designing a course programme.

### Resource requirements

#### ***Centre staffing***

Approved centres must have effective quality assurance systems to ensure optimum delivery and assessment of qualifications. Quality assurance includes initial centre approval, qualification approval and the centre's own internal procedures for monitoring quality. Centres are responsible for internal quality assurance, and City & Guilds is responsible for external quality assurance.

External quality assurance for the qualification will be provided by City & Guilds External Quality Assurers (EQAs). EQAs are appointed by City & Guilds to approve centres, and to monitor the assessment and internal quality assurance carried out by centres. External quality assurance is carried out to ensure that assessment is valid and reliable, and that there is good assessment practice in centres.

To carry out their quality assurance role, EQAs must have appropriate occupational and verifying knowledge and expertise. City & Guilds EQAs attend training and development designed to keep them up-to-date, facilitate standardisation between EQAs and share good practice.

#### ***External quality assurer (EQA)***

The role of the EQA is to:

- provide advice and support to centre staff
- ensure the quality and consistency of assessments within and between centres by the use of systematic sampling
- provide feedback to centres and to City & Guilds.

## **Learner entry requirements**

Learners must not be entered for a qualification of the same type, content and level as that of a qualification they already hold.

There are no formal entry requirements for learners undertaking this qualification. However, centres must ensure that learners have the potential and opportunity to successfully gain the qualification.

It is expected that learners will have basic knowledge of electrical science.

## **Age restrictions**

This qualification is approved for learners aged 16 or above.



## 3 Delivering the qualification

### Initial assessment and induction

An initial assessment of each learner should be made before the start of their programme to identify:

- if the learner has any specific training needs
- support and guidance they may need when working towards their qualification
- any units they have already completed, or credit they have accumulated which is relevant to the qualification
- the appropriate type and level of qualification.

We recommend that centres provide an induction programme, so the learner fully understands the requirements of the qualification, their responsibilities as a learner, and the responsibilities of the centre. This information can be recorded on a learning contract.

### Support materials

The primary publication associated with this qualification is the IET Wiring Regulations, 18th Edition: BS 7671:2018 (2022) Requirements for Electrical Installations. This publication can be obtained from the IET at [www.theiet.org](http://www.theiet.org)

Candidates will require access to a copy of BS 7671 during the examination. The examination will be based upon this document only.

Centre staff must familiarise themselves with the structure, content and assessment requirements of the qualification before designing a course programme.

Centres may design course programmes of study in any way that:

- best meets the needs and capabilities of their candidates
- satisfies the requirements of the qualification.

This qualification specifically addresses the IET Wiring Regulations 18th Edition: BS 7671:2018 (2022) and delivery methods must concentrate on this publication.

## 4 Assessment

### Candidates must:

- successfully complete one multiple choice online test.

This is an open book assessment and learners will be allowed to take in the following permitted reference material

- IET Wiring Regulations 18th Edition: BS 7671:2018 (2022) Requirements for Electrical Installations.

IET wiring regulations books taken into examinations can contain the following:

- Bookmarks (eg blank post-it notes, post-it notes numbered to indicate chapters or corners of pages folded)
- Highlighting of text
- Short notation which cross-references other part of the document.

For more information, please see the permitted reference materials document on the qualification webpage [Requirements for Electrical Installations qualifications and training courses | City & Guilds \(cityandguilds.com\)](https://www.cityandguilds.com/~/media/Qualifications/Level3/Requirements-for-Electrical-Installations-qualifications-and-training-courses)

IET wiring regulations books taken into examinations cannot contain the following:

- Sample exam questions, answers or diagrams
- Any detailed notation in the regulations or accompanying written notes
- Notes, diagrams or any content that may in anyway advantage the candidate in answering questions within the exam.

It is the responsibility of the centre to ensure the material in the candidate's resources cannot unfairly advantage candidates in any way. If there is any doubt over the suitability of content the publication should not be used and replaced with 'clean' regulations.

Many centres may find it easier to continue using 'clean' regulations.

Candidates will also require a non-programmable calculator.

## Test Specification

The way the knowledge is covered by this test is laid out in the table below:

**Permitted Materials:** IET Wiring Regulations 18th Edition: BS 7671:2018 (2022).  
Requirements for Electrical Installations.

**Graded:** Pass/Fail

**Pass Mark:** The pass mark for this examination is set at approx. 60%

Test: 2382- 622	Duration: 120 minutes		
Unit	Outcome	Number of questions	%
622	1. Understand the scope, object and fundamental principles of BS 7671.	4	7%
	2. Understand the definitions used within BS 7671.	2	3%
	3. Understand how to assess the general characteristics of electrical installations.	6	10%
	4. Understand requirements of protection for safety for electrical installations.	15	25%
	5. Understand the requirements for selection and erection of equipment for electrical installations.	14	23%
	6. Understand the requirements of inspection and testing of electrical installations.	4	7%
	7. Understand the requirements of special installations or locations as identified in BS 7671.	7	12%
	8. Understand the information contained within Part 8 and the appendices of BS 7671.	8	13%
Total		60	100

# 5 Units

## Structure of the units

The unit contains the following:

- City & Guilds reference number
- Title
- Level
- Guided learning hours (GLH)
- Unit aim
- Learning outcomes, which are comprised of a number of assessment criteria.

## Unit 622

## Understand the requirements of electrical installations BS 7671:2018 (2022)

<b>Unit level:</b>	Level 3
<b>GLH:</b>	35
<b>Unit aim:</b>	This unit gives the learner an understanding of the full content of BS 7671, and how this applies to electrical installations within its scope.

---

### Learning outcome

The learner will:

- 1 understand the scope, object and fundamental principles of BS 7671.

### Assessment criteria

The learner can:

- 1.1 identify the scope of BS 7671
- 1.2 identify the object of BS 7671
- 1.3 identify the fundamental principles of BS7671.

---

### Learning outcome

The learner will:

- 2 understand the definitions used within BS 7671.

### Assessment criteria

The learner can:

- 2.1 interpret the definitions used within BS 7671
- 2.2 relate the definitions to the regulations and appendices of BS 7671.

---

## Learning outcome

The learner will:

- 3 understand how to assess the general characteristics of electrical installations.

## Assessment criteria

The learner can:

- 3.1 interpret the requirements of assessing the general characteristics of electrical installations within the scope of BS 7671 including:
- Chapter 31 Purpose, supplies and structure
  - Chapter 32 Classification of external influences
  - Chapter 33 Compatibility
  - Chapter 34 Maintainability
  - Chapter 35 Safety services
  - Chapter 36 Continuity of service.

---

## Learning outcome

The learner will:

- 4 understand requirements of protection for safety for electrical installations.

## Assessment criteria

The learner can:

- 4.1 identify the requirements of protection for safety within the scope of BS 7671 including:
- Chapter 41 Electric shock
  - Chapter 42 Thermal effects
  - Chapter 43 Overcurrent
  - Chapter 44 Voltage disturbances and EMI
  - Chapter 46 Isolation and switching.
- 4.2 interpret how this applies to electrical installations within the scope of BS 7671 to include:
- Protection against electric shock
  - Protection against thermal effects
  - Protection against overcurrent
  - Protection against voltage disturbances and electromagnetic disturbances
  - Isolation and switching.

---

### Learning outcome

The learner will:

- 5 understand the requirements for selection and erection of equipment for electrical installations.

### Assessment criteria

The learner can:

- 5.1 identify the requirements for selecting and erecting equipment and interpret how this applies to wiring systems
- 5.2 interpret how this applies to electrical installations within the scope of BS 7671 to include:
  - Common rules
  - Wiring systems
  - Protection, isolation, switching, control and monitoring
  - Earthing arrangements and protective conductors
  - Other equipment
  - Safety services.

---

### Learning outcome

The learner will:

- 6 understand the requirements of inspection and testing of electrical installations.

### Assessment criteria

The learner can:

- 6.1 identify the requirements for inspection and testing
- 6.2 interpret how this applies to electrical installations including:
  - Chapter 64 Initial verification
  - Chapter 65 Periodic inspection and testing.

---

## Learning outcome

The learner will:

- 7 understand the requirements of special installations or locations as identified in BS 7671.

## Assessment criteria

The learner can:

- 7.1 identify the requirements for special installations including:
- Section 700 General
  - Section 701 Locations containing a bath or shower
  - Section 702 Swimming pools and other basins
  - Section 703 Rooms and cabins containing sauna heaters
  - Section 704 Construction and demolition site installations
  - Section 705 Agricultural and horticultural premises
  - Section 706 Conducting locations with restricted movement
  - Section 708 Electrical installations in caravan / camping parks and similar locations
  - Section 709 Marinas and similar locations
  - Section 710 Medical locations
  - Section 711 Exhibitions, shows and stands
  - Section 712 Solar photovoltaic (PV) power supply systems
  - Section 714 Outdoor lighting installations
  - Section 715 Extra-low voltage lighting installations
  - Section 717 Mobile or transportable units
  - Section 721 Electrical installations in caravans and motor caravans
  - Section 722 Electric vehicle charging installations
  - Section 729 Operating and maintenance gangways
  - Section 730 Onshore units of electrical connections for inland navigation vessels
  - Section 740 Temporary electrical installations for structures, amusement devices and booths at fairgrounds, amusement parks and circuses
  - Section 753 Heating cables and embedded heating systems
- 7.2 interpret how these affect the general requirements of the regulations.

---

## Learning outcome

The learner will:

- 8 understand the information contained within Part 8 and the appendices of BS 7671.

## Assessment criteria

The learner can:

- 8.1 identify the information contained in Part 8 of BS 7671
- 8.2 identify the information in the appendices of BS 7671
- 8.3 specify how the information contained in the appendices is used to support electrical installation activities.



# Appendix 1 Relationships to other qualifications

## Links to other qualifications

Centres are responsible for checking the different requirements of all qualifications they are delivering and ensuring that candidates meet requirements of all units/qualifications.

## Literacy, language, numeracy and ICT skills development

This qualification can develop skills that can be used in the following qualifications:

- Functional Skills (England) – see [City & Guilds Functional Skills](#)
- Essential Skills (Northern Ireland) – see [City & Guilds Essential Skills NI](#)
- Essential Skills Wales – see [City & Guilds Essential Skills Wales](#)

## Appendix 2 Sources of general information

The following documents contain essential information for centres delivering City & Guilds qualifications. They should be referred to in conjunction with this handbook. To download the documents and to find other useful documents, go to the **Centre Document Library** on **www.cityandguilds.com** or click on the links below:

### **Quality Assurance Standards: Centre Handbook**

This document is for all approved centres and provides guidance to support their delivery of our qualifications. It includes information on

- Centre quality assurance criteria and monitoring activities
- Administration and assessment systems
- Centre-facing support teams at City & Guilds / ILM
- Centre quality assurance roles and responsibilities.

The Centre Handbook should be used to ensure compliance with the terms and conditions of the Centre Contract.

### **Quality Assurance Standards: Centre Assessment**

This document sets out the minimum common quality assurance requirements for our regulated and non-regulated qualifications that feature centre assessed components. Specific guidance will also be included in relevant qualification handbooks and/or assessment documentation.

It incorporates our expectations for centre internal quality assurance and the external quality assurance methods we use to ensure that assessment standards are met and upheld. It also details the range of sanctions that may be put in place when centres do not comply with our requirements, or actions that will be taken to align centre marking/assessment to required standards. Additionally, it provides detailed guidance on the secure and valid administration of centre-assessments.

### **Access arrangements - When and how applications need to be made to City & Guilds**

provides full details of the arrangements that may be made to facilitate access to assessments and qualifications for candidates who are eligible for adjustments in assessment.

This **Centre Document Library** also contains useful information on such things as:

- Conducting examinations
- Registering learners
- Appeals and malpractice

## Useful contacts

Please visit the Contact Us section of the City & Guilds website, **Contact us**

## About City & Guilds

As the UK's leading vocational education organisation, City & Guilds is leading the talent revolution by inspiring people to unlock their potential and develop their skills. We offer over 500 qualifications across 28 industries through 8500 centres worldwide and award around two million certificates every year. City & Guilds is recognised and respected by employers across the world as a sign of quality and exceptional training.

## City & Guilds Group

The City & Guilds Group is a leader in global skills development. Our purpose is to help people, organisations and economies develop their skills for growth. We work with education providers, employers and governments in over 100 countries across the world to help people, businesses and economies grow by shaping skills systems and supporting skills development.

The Group is made up of City & Guilds, ILM, Kineo, The Oxford Group, Gen2, and Intertrain. Together we set the standard for professional and technical education and corporate learning and development around the world.

## Copyright

The content of this document is, unless otherwise indicated, © The City & Guilds of London Institute and may not be copied, reproduced or distributed without prior written consent. However, approved City & Guilds centres and learners studying for City & Guilds qualifications may photocopy this document free of charge and/or include a PDF version of it on centre intranets on the following conditions:

- centre staff may copy the material only for the purpose of teaching learners working towards a City & Guilds qualification, or for internal administration purposes
- learners may copy the material only for their own use when working towards a City & Guilds qualification

The Standard Copying Conditions (see the City & Guilds website) also apply.

Published by City & Guilds, a registered charity established to promote education and training

City & Guilds of London Institute  
Giltspur House  
5-6 Giltspur Street  
London  
EC1A 9DE

**[cityandguildsgroup.com](http://cityandguildsgroup.com)**