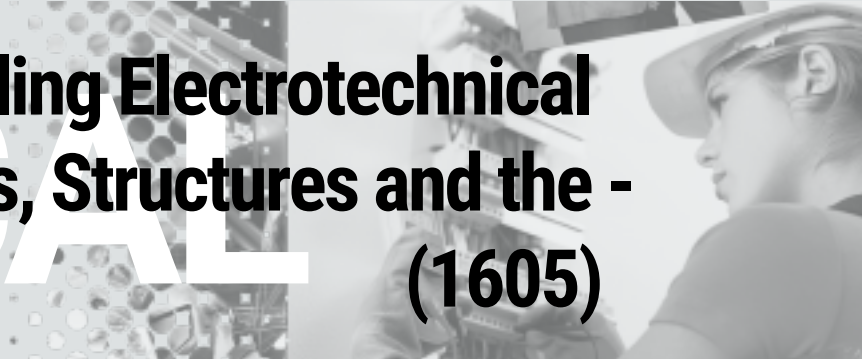




EAL Level 3 NVQ Diploma in Installing Electrotechnical Systems and Equipment (Buildings, Structures and the - Environment) (1605)



Qualification Specification

Overview

This qualification is a National Vocational qualification (NVQ). It involves the skills and knowledge needed to do the job, ability to organise work and identify and prevent problems. NVQs are based on national occupational standards, which the learner must meet to be competent in a particular task. The achievement of NVQs will encourage an employee to value their contribution to the workplace, and it will develop their skills and potential. This qualification requires occupational evidence.

Typical Job

Electrician

Qualification code:	501/1605/8
Level:	3
Guided learning hours:	726
Credits	104
Age range:	16 +
Total qualification time (hours):	1044

Issue 1.0

Purpose of the qualification

What does this qualification cover?

The skills and knowledge required to install electrotechnical systems and equipment in buildings, structures and the environment. The qualification is made up of knowledge units and performance units. The units cover a wide range of topics including health and safety, environmental technology systems, overseeing and organising the work environment, planning, preparing and installing electrical systems and equipment, terminating and connecting conductors, cables and flexible cords, inspecting, testing, commissioning and fault diagnosis and correction. Integral to this qualification is the Electrotechnical Occupational Competence Unit which is assessed by the AM2.

Who is this qualification for?

- Those who wish to become a competent electrician.
- Those who wish to pursue a career in the electrotechnical/building services sector.
- Learners undertaking SummitSkills apprenticeship frameworks.

Who supports this qualification?

This qualification is:

- Is accredited by Ofqual at level three.
- Forms part of Summit Skills apprenticeship frameworks.
- Is recognised by the Joint Industry Board (JIB) for grading
- Was developed in conjunction with industry and training providers.

What could this qualification lead to?

Qualifications in inspecting and testing, and design and verification of electrical installations. Also a career in the electrical sector, and higher study.

Entry requirements

Learners must be at least 16 years old. There are no formal entry requirements for this qualification. However, learners must have the potential to achieve all aspects of the qualification including the occupational evidence requirements of the performance units. In particular, learners should be able to demonstrate that they have the minimum levels of literacy and numerary required for the completion of the learning outcomes and the assessments.

How is the qualification achieved?

This qualification will be achieved when the learner has successfully completed the theory and practical assessments relating to the units. .

What will be assessed?

The learners ability in various aspects of electrical installation covered in the units. Integral to this qualification is the Electrotechnical Occupational Competence Unit which is assessed by the AM2 (via NET).

How will it be assessed?

The qualification is assessed by a mixture of on-screen exams, written assignments, and practical assessments. The qualification is not graded and the learner may only achieve a pass.

Structure

This qualification will be obtained by the learner once they have achieved the units below. Note that QELTK units are knowledge units, QELTP units are performance units and require occupational evidence (site portfolio). QEOC3/001 is assessed by the AM2 (via NET) and is the last unit to be taken.

Unit	Unit title	GLH	Ofqual Code
QELTK3/001	Understanding health and safety legislation, practices and procedures (installing and maintaining electrotechnical systems and equipment)	54	H/602/2523
QELTK3/002	Understanding environmental legislation, working practices and the principles of environmental technology systems	36	M/602/2525
QELTK3/003	Understanding the practices and procedures for overseeing and organising the work environment (electrical installation)	56	J/602/2532
QELTK3/004	Understanding the practices and procedures for the preparation and installation of wiring systems and electrotechnical equipment in buildings, structures and the environment	96	T/602/2560
QELTK3/004A	Understanding the principles of planning and selection for the installation of electrotechnical equipment and systems in buildings, structures and the environment	76	A/602/2561
QELTK3/005	Understanding the principles, practices and legislation for the termination and connection of conductors, cables and cords in electrical systems	86	J/602/2563
QELTK3/006	Understanding the principles, practices and legislation for the inspection, testing, commissioning and certification of electrotechnical systems and equipment in buildings, structures and the environment	78	D/602/2567

Unit	Unit title	GLH	Ofqual Code
QELTK3/007	Understanding the principles, practices and legislation for diagnosing and correcting electrical faults in electrotechnical systems and equipment in buildings, structures and the environment	58	R/602/2579
QELTK3/008	Understanding the electrical principles associated with the design, building, installation and maintenance of electrical equipment and systems	106	A/602/2589
QELTP3/001	Applying health and safety legislation and working practices (installing and maintaining electrotechnical systems and equipment)	10	R/602/2596
QELTP3/002	Applying environmental legislation, working practices and the principles of environmental technology systems	10	H/602/2599
QELTP3/003	Overseeing and organising the work environment (electrical installation)	10	K/602/2605
QELTP3/004	Planning, preparing and installing wiring systems and associated equipment in buildings, structures and the environment	12	R/602/2792
QELTP3/005	Terminating and connecting conductors and cables in electrical systems	8	H/602/2828
QELTP3/006	Inspecting, testing, commissioning and certifying electrotechnical systems and equipment in buildings, structures and the environment	12	K/602/2703
QELTP3/007	Diagnosing and correcting electrical faults in electrical systems and equipment in buildings, structures and the environment	12	M/602/2704
QEOC3/001	Electrotechnical Occupational Competence	6	R/602/2503