

Domestic Electrician Apprenticeship Standard

Occupational Profile

This occupation is found in the domestic dwelling construction, engineering and social housing installation and maintenance electrician industries.

Domestic electricians work in domestic properties such as homes, dwellings, or individual units in care homes, rather than on commercial or industrial building sites.

Domestic electricians may work for small independent businesses or for providers of homes and residential services such as local authorities and housing associations, housing construction companies, care homes, electric utility companies and other companies providing electrotechnical services to the residential market. Once qualified and experienced, some domestic electricians may choose to become self-employed contractors.

The broad purpose of the occupation is to install and maintain electrical services within a domestic setting.

Working in a residential (new installation or existing) setting, the domestic electrician will focus on the installation of new, the upgrade or repair of existing cables and equipment to enable safe and reliable distributed electricity within the premises.

The scope of a domestic electrician will include design and testing of systems which provide traditional heating, power, and lighting plus the installation of new and emerging technologies. The new technologies will include enhanced connectivity for domestic use and comfort and convenience technologies. Domestic electricians will help make homes highly efficient and near-zero-carbon. Domestic electricians may be required to provide out of hours emergency repairs and services. A driving licence may be a requirement for some employers.

In their daily work, a worker in this occupation interacts with:

- Their customers who are usually the end user of the services.
- The team leader or area manager as well as personnel responsible for materials storage and supply if they work in an organisation.

- Building materials suppliers, merchants, small business support, accountants, and others if they are self-employed.
- A domestic electrician will sometimes work within a team or may often be accompanied an apprentice.

An employee in this occupation will be responsible for completing their own work to specification, with minimal supervision, ensuring they meet set deadlines. This role is for people who like to work independently most of the time, but it also involves interacting with customers, colleagues, and others.

Domestic Electricians will be responsible for meeting quality requirements and working in accordance with industry-defined health, safety and environmental considerations.

They may be solely responsible for company property such as tools, work vehicles for transporting materials such as company vans.

Key requirements for successful domestic electricians include professionalism and high regard for customer service throughout the job from responding to enquiries, proposing solutions, providing quotations, undertaking work, and handing completed work back to the customer.

Typical Job Titles:

Domestic Electrician.

Typical duration: 36 months

Occupational Level: 3

Qualifications: Apprentices without Level 2 in English and Maths will need to achieve this prior to taking the end-point assessment.

For those with an education, health and care plan or a legacy statement the apprenticeships English and Maths minimum requirement is Entry Level 3 and British Sign Language qualification are an alternative to English qualifications for whom this is their primary language.

Mandated Qualification(s):

All apprentices will be required to achieve as a minimum:

Level 3 Electrotechnical in Dwellings Qualification*

*Title is unlikely to change but is not yet confirmed

Entry Requirements: Individual employers will set the selection criteria for their Apprenticeships. Apprenticeship candidates will typically have at least 5 GCSEs at Grades A*-C / 9-4 including Maths (Grade B / 5 or 6), English and Science or their equivalent.

Professional Registration: On completion of the apprenticeship the apprentice will be eligible to work as a Domestic Electrician and apply for a Joint Industry Board ECS Gold Card recognising qualified status in the occupation of “Domestic Electrician”.

Duties	KSB Mapping
1. Understand fully and work in full compliance with health, safety, and environmental regulations; building regulations; industry guidance notes; relevant codes of practice, the requirements of the current edition of the Wiring Regulations (BS7671) and other relevant standards	K1, K2, K3, K6, S1, S2, S3, S4, S7, S8, S9, B1, B2, B3
2. Always provide appropriate customer service, prioritising their care, safety, and security and that of any children and pets on customer property	K4, K5, S1, S2, S3, S4, S5, S6, B1, B2, B3, B4
3. Undertake the installation of both wired and wireless solutions in achieving a desired outcome appropriate to customer need in accordance with the requirements of BS 7671 and other relevant industry standards, and assess electrical loads on domestic installations to ensure safe and suitable solutions can be provided to the customer including assisted living technologies, lighting design and comfort and convenience technologies	K7, K8, K9, K10, K11, K12, K13, S1, S2, S3, S4, S6, S7, S8, S9, S11, S13, B1, B2, B3, B4
4. Plan and deliver the best solution for the customer, incorporating and integrating comfort and convenience technologies for the homeowner, within agreed budget, including the installation, maintenance, and inspection of domestic electric vehicle charging systems and other domestic use special installations, in accordance with the requirements of BS 7671 and other relevant industry standards	K7, K8, K10, K11, K12, K13, S1, S2, S3, S4, S6, S7, S8, S11, S13, B1, B2, B3, B4
5. Carry out electrical installation, initial verification, maintenance and testing work on a variety of voltages; both AC and DC; not exceeding 230V single phase	K9, K10, K11, K12, K13, K14, S1, S2, S3, S4,

	S7, S8 ,S9, S10, S11 S12, B1, B2, B3, B4
6. Site and install mains powered smoke and heat detectors for domestic premises only and advise the customer regarding detector cleaning, maintenance, and user testing.	K10, K11, K12, K13, S1, S2, S3, S4, S5, S6, S7, S8, S11, S13, B1, B2, B3, B4
7. Design and install wiring for domestic heating systems including central heating boilers and other domestic heating systems which need electrical connections	K10, K12, K13, S1, S2, S3, S4, S5, S6, S7, S8, S11, S13, B1, B2, B3
8. Understand the different types of environmental technologies that may be found in a domestic dwelling including solar photovoltaic systems, heat pumps, micro wind turbines and domestic battery storage and their interaction with conventional electrical installations	K10, K11
9. Install cables within the fabric of the building for internal and external installations while maintaining the integrity of fire compartments and customers belongings	K10, K12, K13, S1, S2, S3, S4, S5, S6, S7, S8, S11, B1. B2, B3
10.Understand the need for appropriate consideration towards, and knowledge of specialist requirements when working in historical installations and settings	K8, K10, K13, B1, B2, B3, B4
11.Carry out maintenance regimes, periodic inspection and testing of existing single phase domestic electrical installations in accordance with manufacturer instructions and the requirements for electrical installations	K14, K15, S1, S2, S3, S4, S5, S6, S7, S8, S12, B2, B2, B3
12.Prepare and complete relevant work documentation from quotation to certification and handover stages	K15, K16, K17, S15, S16
13.Understand how to plan and project manage typical Domestic Electrician work	K14, K15, K16, K17, K18, K19,

	S11, S14, S15, S16, B5,B6
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The following sections are the Knowledge, Skills and Behaviour statements. All these statements must be assessed by appropriate means throughout the apprenticeship and in the end point assessment. The statements should be as specific as necessary but as broad as possible to ensure breadth and depth of learning and competence.

Knowledge Statements

Reference	Proposed Statement
K1	Understand relevant health & safety legislation and safe working practices covering hazards and risks when undertaking domestic electrical work and how these can be avoided.
K2	Personal protective equipment (PPE) that should be used when undertaking electrical work, the correct selection of PPE and how to use different PPE.
K3	Understand how to, and importance of protecting customers property, and restoring the work area to a tidy and safe state on completion of work
K4	Effective communication techniques and methods when communicating with people in different roles, and the full range of people and their roles that Domestic Electricians will interact with in their work.
K5	Importance of customer service and effective customer service principles and techniques.
K6	Understand key organisations and their purpose within the electrical installation and maintenance industry and the domestic electrician's role within the industry
K7	Relevant legislation pertaining to Domestic Electrical work including building regulations; industry guidance notes; relevant codes of practice, environmental regulations, the requirements of the current edition of the Wiring Regulations (BS7671) and other relevant standards

K8	Relevant sources of technical information and guidance specifically for domestic electrical installation and maintenance work, mainly including electrical drawings, manufacturer's instructions and technical specifications and why and how these should be used.
K9	Mathematical techniques, formulae, and calculations that underpin a Domestic Electrician's work.
K10	Identify the tools, materials, equipment and components required to perform domestic electrical work and knowledge of their correct use, storage and maintenance
K11	Purpose of different domestic electrical and electronic equipment, installations, components and systems and their characteristics, features, installation and maintenance requirements, including domestic heating systems, comfort and convenience technologies, smart home applications and devices, domestic safety devices and Electric Vehicle charging points.
K12	Process and procedures for the design, planning, set up, and installation of domestic electrical and electronic systems
K13	Methods of terminating and connecting cables in domestic electrical wiring systems, installations, and equipment.
K14	Inspection and Testing of Domestic Electrical Installations using different diagnostic and problem-solving techniques and methods used to find, assess, and resolve domestic electrical and electronic faults for both initial and periodic testing requirements of single-phase installations
K15	Importance of accurate preparation, completion, and maintenance of relevant work documentation including observations, test results and certification documents
K16	Understand the key requirements of professional written quote and estimate preparation.
K17	How information technology is used in the Domestic electrician industry, such as completion of test certificates and work documentation
K18	Identify current digital learning platforms, and platforms used for business communication and collaboration.

K19	Understand the requirements for continual personal development within the industry and the opportunities for career progression
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Skills Statements

Reference	Proposed Statement
S1	Maintain the safety of self and others by applying statutory health and safety policies, procedures, and regulations when conducting domestic electrical work.
S2	Identify and comply with all relevant legislation, regulations, codes of practice and other relevant information and guidance when planning and performing domestic electrical work.
S3	Correctly identify and use the right personal protective equipment (PPE) that should be used when undertaking domestic electrical work.
S4	Carry out work in a tidy and safe manner, including protection of customers property and restoration of the work area on completion of work
S5	Communicate effectively using techniques and methods with colleagues, customers, contractors, suppliers and others
S6	Apply appropriate customer service principles and techniques to deliver effective customer service
S7	Apply relevant legislation; building regulations; industry guidance notes; relevant codes of practice, environmental regulations, the requirements of the current edition of the Wiring Regulations (BS7671) and other relevant standards while carrying out work
S8	Use relevant sources of information and guidance for domestic electrical installation and maintenance work, typically including electrical drawings, manufacturer's instructions, and technical specifications.
S9	Use necessary mathematical techniques, formulae, and calculations that underpin a Domestic Electrician's work.
S10	Use a range of tools, materials, equipment, and components relevant to performing domestic electrical work safely and correctly.

S11	Design, plan, set up, and install domestic electrical and electronic systems including terminating and connecting cables in domestic electrical wiring systems, installations, and equipment.
S12	Inspect and test domestic electrical Installations using appropriate diagnostic and problem-solving techniques and methods to identify, assess and resolve domestic electrical and electronic faults for both initial and periodic testing requirements of single-phase installations
S13	Install and maintain domestic electrical and electronic equipment and components, including domestic heating systems, comfort and convenience technologies and smart home applications and devices and Electric Vehicle charging points.
S14	Plan, carry out and manage own work ensuring work is compliant to the relevant standard
S15	Record work accurately using correct processes including completion and maintenance of work documentation, recording of test results and preparation of appropriate certification
S16	Use relevant digital learning platforms and business communication and collaboration applications

Behaviour Statements

STATEMENT	Proposed Statement
B1	Acts ethically and contributes to safe outcomes. Puts health and safety first for themselves and others. Embeds a health and safety culture and is always hazard and risk aware during work. Challenges any unsafe practices and demonstrates personal accountability.
B2	Embraces a sustainable working culture, contributing to the careful use of resources and disposal of work waste.
B3	Demonstrates commitment to quality, commercial awareness, and continuous improvement by complying with health, safety and welfare requirements, industry standards, statutory regulation and legislation, policies, and codes of practice
B4	Focuses on the requirements of the customer (internal and external), seeking to provide outstanding customer service, meeting, or exceeding customer requirements.

B5	Manages own time efficiently to complete work operations within the confines of job responsibility, and effectively schedule and manage stakeholder expectations.
B6	Committed to keeping up to date with industry best practice, relevant legislation and technical standards and undertaking personal CPD

Behaviour statements are contextualised from the new BSI core competence standard BSI Flex 8670 v3.0