National Recognised Standard for Electricians:

EngTech Professional Registration

This Recognised Standard is fully compliant with the UK Standard for Professional Engineering Competence (UK-SPEC) which sets out the competence and commitment required for registration as an Engineering Technician (EngTech) and other categories of professional registration.
### UK-SPEC A-E Competences

**The Competence and Commitment Standard for Engineering Technicians**

Engineering Technicians must be competent throughout their working life, by virtue of their education, training and experience, to:

- Tell us about your career, education and training. Explain how the experience you have gained has made you more competent.

#### A

**Use engineering knowledge and understanding to apply technical and practical skills.**

This includes the ability to:

- Review and select appropriate techniques, procedures and methods to undertake tasks.
- Use appropriate scientific, technical or engineering principles.

**A1**

Review and select appropriate techniques, procedures and methods to undertake tasks.

**A2**

Use appropriate scientific, technical or engineering principles.

#### B

**Contribute to the design, development, manufacture, construction, commissioning, operation or maintenance of products, equipment, processes, systems or services.**

In this context, this includes the ability to:

- Identify problems and apply appropriate methods to identify causes and achieve satisfactory solutions.
- Identify, organise and use resources effectively to complete tasks, with consideration for cost, quality, safety, security and environmental impact.

**B1**

Identify problems and apply appropriate methods to identify causes and achieve satisfactory solutions.

**B2**

Identify, organise and use resources effectively to complete tasks, with consideration for cost, quality, safety, security and environmental impact.

Show an example of how you have used electrical test equipment to monitor and assess the condition of an electrotechnical installation or system, in order to:

- Identify the source of a fault, or
- Identify areas where electrical efficiencies can be made, or
- Make recommendations for improvement or repair

Illustrate how you make decisions about:

- What Regulations, people, materials or plant to utilize during the design or maintenance of an electrotechnical installation, or planning inspections of existing installations
- Or how to use new industry techniques, tools and technologies to streamline and improve the efficiency of the installation, commissioning or inspection process
- Or how you ensured the safety of yourself and those around you during any commissioning testing or installation work
- And how you addressed sustainability and minimised the environmental impact

Describe how you have contributed to best practice methods of continuous improvement, eg ISO 9000.
### C

**Accept and exercise personal responsibility.**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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<tbody>
<tr>
<td>C1</td>
<td>Work reliably and effectively without close supervision, to the appropriate codes of practice.</td>
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<tr>
<td>C2</td>
<td>Accept responsibility for work of themselves or others.</td>
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<tr>
<td>C3</td>
<td>Accept, allocate and supervise technical and other tasks.</td>
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</tbody>
</table>

#### C1
- Completing challenging tasks successfully within your area of work
- Identifying issues which fall outside of your current knowledge and seeking advice
- Identifying standards and codes of practice relevant to a new task

#### C2
- Fully understanding drawings, permits to work, instructions or other similar documents after appropriate checking, and identifying issues
- Inspecting work carried out by others
- Checking the status of equipment, the work environment and facilities and taking appropriate actions before commencing work

#### C3
- Ensuring that the scope of a task is clear before accepting and/or allocating it to others
- Querying any aspect of a task which is not clear and/or providing an explanation if a query is raised by others
- Learning from your own experience and/or providing constructive feedback when supervising or working with others

### D

**Engineering Technicians shall use effective communication and interpersonal skills.**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>D1</td>
<td>Communicate effectively with others, at all levels, in English.</td>
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<tr>
<td>D2</td>
<td>Work effectively with colleagues, clients, suppliers or the public.</td>
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<tr>
<td>D3</td>
<td>Demonstrate personal and social skills and awareness of diversity and inclusion issues.</td>
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#### D1
- Contributing to meetings and discussions
- Preparing communications, documents and reports on technical matters
- Exchanging information and providing advice to technical and non-technical colleagues

#### D2
- Contributing constructively as part of a team
- Successfully resolving issues in discussions with team members, suppliers, clients and/or others
- Persuading others to accept suggestions or recommendations
- Identifying, agreeing and working towards collective goals

#### D3
- Knowing and managing own emotions, strengths and weaknesses
- Being confident and flexible in dealing with new and changing interpersonal situations
- Creating, maintaining and enhancing productive working relationships, and resolving conflicts
- Being supportive of the needs and concerns of others, especially where this relates to diversity and inclusion

### E

**Engineering Technicians shall demonstrate commitment to an appropriate code of professional conduct, recognising obligations to society, the profession and the environment.**

<table>
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<th>Requirement</th>
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<tbody>
<tr>
<td>E1</td>
<td>Understand and comply with relevant codes of conduct.</td>
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<tr>
<td>E2</td>
<td>Understand the safety implications of their role and apply safe systems of work.</td>
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<tr>
<td>E3</td>
<td>Understand the principles of sustainable development and apply them in their work.</td>
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#### E1
- Demonstrating compliance with your Licensee’s Code of Professional Conduct
- Working within all relevant legislative and regulatory frameworks, including social and employment legislation

#### E2
- Providing evidence of applying current safety requirements, such as risk assessment and other examples of good practice you adopt in your work
- A sound knowledge of health and safety legislation, for example: HASAW 1974, CDM regulations, ISO 45001 and company safety policies

#### E3
- Recognising how sustainability principles, as described in the Guidance on Sustainability on page 48, can be applied in your day-to-day work
- Identifying actions that you can and have taken to improve sustainability
Contextualised Education Requirements: Bespoke to Electricians

Education – Bespoke to Electricians

Education knowledge and understanding are important components of professional competence. For electricians, the required knowledge and understanding for Engineering Technicians can be demonstrated through a Trailblazer Electrotechnical Apprenticeship or industry recognised Advanced/Modern Electrotechnical Apprenticeship (at Level 3 or equivalent); or an appropriate competence based Level 3 qualification such as:

- NVQ/SVQ Level 3 Diploma in Installing Electrotechnical Systems And Equipment (Buildings, Structures And The Environment)
- NVQ Level 3 Diploma in Electrotechnical Services (Electrical Maintenance)
- SVQ Level 3 Electrical Installation at SCQF level 7
- NVQ Level 3 Diploma in Servicing Highway Electrical Systems (QCF)
- NVQ Level 3 Diploma in Servicing and Commissioning Highway Electrical Systems

Many qualifications may be acceptable as evidence that part or all of the necessary competence has been acquired. Please check the Engineering Council’s searchable database of approved qualifications and programmes for information about current approved status: www.engc.org.uk/techdb

Some electricians have not had the advantage of formal training, but are able to demonstrate that they have acquired the necessary competence through substantial working experience. Electricians without the types of qualifications described above, may apply for an Individual Assessment. This process, administered by the applicant’s institution, includes assessment of prior learning and of current performance. Evidence of employer recognition of competences and relevant skills may be helpful.

Applicants should consult the IET for advice on the most appropriate option by emailing electricianregistration@theiet.org

theiet.org/electrician-engtech