



END-POINT ASSESSMENT PLAN FOR THE DOMESTIC ELECTRICIAN APPRENTICESHIP

APPRENTICESHIP REFERENCE NUMBER	LEVEL OF THIS END-POINT ASSESSMENT (EPA)	INTEGRATION
ST1017	3	None

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Introduction and overview

This document explains the requirements for end-point assessment (EPA) for the domestic electrician apprenticeship. End-point assessment organisations (EPAOs) must follow this when designing and delivering the EPA.

Domestic electrician apprentices, their employers and training providers should read this document.

National Electrotechnical Training (NET) is the sole EPAO for this EPA and must conduct the EPA for this apprenticeship. NET is the industry charity whose purpose is to independently ensure electrotechnical competence. NET owns and delivers a bespoke assessment, titled AM2 that forms the EPA for the domestic electrician apprenticeship standard.

The responsibilities of NET include:

- external quality assurance of the domestic electrician apprenticeship standard
- the production of all assessment material
- provision of the premises in which all assessment takes place, via the NET licensed centre network
- provides the licence for NET approved and qualified independent assessors to undertake the independent assessment of the EPA
- confirm competence via the EPA which confers eligibility for the award of an ECS gold card by the Joint Industry Board (JIB)

The EPA will be conducted under controlled conditions by NET licensed independent assessors and will be available through NET's licensed centre network of over 50 centres across England, Wales and Northern Ireland.

The behaviour statements for this apprenticeship must be validated by the employer. The employer must provide a signed declaration to the EPAO at gateway, confirming that the apprentice has demonstrated all the behaviours during the on-programme period to the level and consistency required for occupational competence.

A full-time apprentice typically spends 36 months on-programme (this means in training before the gateway) working towards competence as a domestic electrician. All apprentices must spend at least 12 months on-programme. All apprentices must complete the required amount of off-the-job training specified by the apprenticeship funding rules.

This EPA has 2 assessment methods.

The grades available for each EPA method are:

EPA method 1 - observation of practical competence in a controlled environment:

- fail
- pass

EPA method 2 - online knowledge assessment:

- fail

- pass

The result from each EPA method is combined to decide the overall apprenticeship grade. The following grades are available for the apprenticeship:

- fail
- pass

EPA summary table

On-programme - typically 36 months	<p>The apprentice must complete training to develop the knowledge and skills of the occupational standard.</p> <p>The apprentice must demonstrate occupational competence of behaviours assigned to this apprenticeship.</p> <p>The apprentice must complete training towards English and maths qualifications in line with the apprenticeship funding rules.</p> <p>The apprentice must complete training towards any other qualifications listed in the occupational standard.</p> <p>The qualification(s) required are:</p> <p>Electrotechnical in dwellings qualification</p> <p>The NET pre-assessment manual should be read in conjunction with this plan and can be found on the national electrotechnical training website.</p>
End-point assessment gateway	<p>The apprentice's employer must:</p> <ul style="list-style-type: none"> confirm the apprentice is working at or above the occupational standard as a domestic electrician provide a signed declaration to the EPAO, confirming the apprentice has demonstrated all the behaviours during the on programme period to the level and consistency required for occupational competence confirm the apprentice has the evidence required to pass the gateway and is ready to take the EPA The apprentice must: <ul style="list-style-type: none"> have passed the electrotechnical apprenticeship qualification have achieved English and mathematics qualifications in line with the apprenticeship funding rules complete the pre-assessment checklist as stated on the national electrotechnical training website <p>Gateway evidence must be submitted to the EPAO, along with any organisation specific policies and procedures requested by the EPAO.</p>

End-point assessment typically 6 months	Grades available for each method: <ul style="list-style-type: none"> • fail • pass <p>Online knowledge assessment</p> <ul style="list-style-type: none"> • fail • pass <p>Overall EPA and apprenticeship can be graded:</p> <ul style="list-style-type: none"> • fail • pass
Professional recognition	<p>This apprenticeship standard is recognised by the Joint Industry Board as conferring eligibility for recognition via an ECS Domestic Electrician Gold Card. As part of the application process the appropriate Health and Safety components will be recognised.</p>
Re-sits and re-takes	<ul style="list-style-type: none"> • Re-take and re-sit grade cap: pass • Re-sit timeframe: typically 3 months • Re-take timeframe: typically 3 months

Duration of end-point assessment period

The EPA will be taken within the EPA period. The EPA period begins when the EPAO confirms the gateway requirements are met and is typically 6 months.

The expectation is that the EPAO will confirm the gateway requirements are met and the EPA begins as quickly as possible.

EPA gateway

The apprentice's employer must be content that the apprentice is occupationally competent. That is, they are deemed to be working at or above the level set out in the apprenticeship standard and ready to undertake the EPA. The employer may take advice from the apprentice's training provider, but the employer must make the decision. The apprentice will then enter the gateway. NET as the EPAO determines when all gateway requirements have been met, and the EPA period will only start once the EPAO has confirmed this.

The gateway requirements are:

- the apprentice must have achieved English and mathematics qualifications in line with the apprenticeship funding rules
- the apprentice must have achieved an electrotechnical apprenticeship qualification
- the employer, apprentice and training provider must complete and sign the Readiness for Assessment checklist
- the employer must provide a signed declaration to the EPAO at gateway, confirming that the apprentice has demonstrated all the behaviours during the on-programme period to the level and consistency required for occupational competence

Gateway evidence must be submitted to the EPAO, along with any organisation specific policies and procedures requested by the EPAO.

Order of EPA assessment methods

The assessment methods can be delivered in any order. The result of one assessment method does not need to be known before starting the next.

EPA Assessment method 1: Observation of practical competence in a controlled environment

Overview

In an observation of practical competence in a controlled environment, a NET licensed independent assessor observes an apprentice carrying out a range of simulated electrical exercises which reflect typical electrical work carried out in the workplace.

The observation of practical competence in a controlled environment must be assessed holistically by the NET licensed independent assessor when they are deciding the grade.

Rationale

The practical installation reflects the scope of a domestic electrician's work as set out in the knowledge and skills, and is typical of the apprentice's work, ensuring that they can demonstrate the range specified within the occupational standard in practice. As part of a domestic electrician's role, they will be expected to carry out an installation to a specification and test and inspect using the appropriate British Standards and associated guidance notes, with an awareness of net zero and green technologies. Therefore, this method of assessment is deemed as the most appropriate for this occupation as it accurately reflects all environments and current workplace tasks of the apprentice, which may not be available in a timely, standardised manner to the apprentice, if observed in the real working environment.

AM2 is the benchmark required for all domestic electricians. This is the agreed competence standard for the industry. This will be a modified competence assessment sampled from the current Industry Assessment of Competence AM2, the apprenticeship covers the professional recognition required for a domestic electrician.

Delivery

The observation of practical competence in a controlled environment must be structured to give the apprentice the opportunity to demonstrate the knowledge and skills mapped to this EPA method.

The observation will take place in controlled conditions within a NET licensed assessment centre. NET licensed independent assessors can observe up to 4 apprentices at a time for each component as specified by NET guidance.

The EPAO must give an apprentice 10 days notice of the observation. The observation must take 19 hours.

The observation of practical competence in a controlled environment must allow the apprentice the opportunity to demonstrate the KSBs mapped to this assessment method.

The observation may take place in parts but must be completed within 3 consecutive working days. A working day is typically 7.5 hours. The reason for this split is to accommodate the different components that take several hours to complete.

The EPAO must manage invigilation of apprentices at all times to maintain security of the EPA, in line with their malpractice policy. This includes breaks and moving between locations.

The NET licensed independent assessor must explain to the apprentice the format and timescales of the observation before it begins. This does not count towards the assessment time.

The NET licensed independent assessor conducts and assesses the observation of practical competence in a controlled environment. They must record the knowledge and skills observed.

The NET licensed independent assessor makes all grading decisions.

These activities provide the apprentice with the opportunity to demonstrate the knowledge and skills mapped to this assessment method.

There are four components in the observation.

The NET licensed independent assessor should observe the following during the observation:

Component 1 - planning, safe isolation and risk assessment (1 hour)

Apprentices will prepare and complete a risk assessment for the assessment area work environment. Associated to this will be an observed exercise of safely isolating the domestic installation and net zero/green technologies before working on the installation.

Component 1 includes:

- a completed risk assessment
- NET licensed independent assessor undertaking visual observation of the apprentice completing the preferred isolation procedure (safety critical to include PV array)
- planning for installation

Component 2 - domestic installation observation (10.5 hours)

Apprentices will install a domestic installation with respect to a set specification, including circuits for net zero/green technologies. Monitoring of the installation for safe practice will be conducted by the NET licensed independent assessor and then assessed when the installation is complete. If this section is not completed within the component assigned time, then the assessment will be recorded as 'out of time' and this component will be deemed to have been failed.

Including:

- lighting circuits
- power circuits
- equipotential bonding
- sub-main circuit
- smoke or heat detection circuit
- installation within specialised functions
- circuit installation provision for net zero or green technologies

- PVC containment
- data circuit
- smart heating

Component 3 - domestic testing and associated regulatory documents (5.5 hours)

Overview

Apprentices will test the installed domestic installation in accordance with the British Standard and associated guidance documents, which will be available for reference. Due to the sensitivity and safety critical nature of this element, it must be fully observed by the NET licensed independent assessor. The NET licensed independent assessor will monitor to ensure safe practice throughout this component and the assessment will be stopped and graded as a fail, should unsafe practice occur. If this section is not completed within the specified time, then the assessment will be recorded as 'out of time' and this component will be deemed to have been failed. This will include

- dead testing in correct sequence
- live testing supervised by a Net licensed independent assessor
- completion of an Electrical Installation Certificate
- functional testing

Component 4 - fault finding and condition reporting on domestic circuits (2 hours)

Apprentices will use their knowledge and skills to interrogate a domestic installation and identify faults on simulated faulty circuits commonly found in domestic premises. It will be observed by a NET licensed independent assessor for the apprentice to undertake tasks on a simulated domestic installation. The assessment will be stopped and graded as a fail, should unsafe practice occur. If this section is not completed within the specified time, then the assessment will be recorded as 'out of time' and this component will be deemed to have been failed.

This will include:

- identify faults on simulated faulty circuits
- test the installed domestic installation in accordance with BS7671
- complete a condition report on a simulated domestic installation with faults introduced by NET licensed independent assessor following the EPAO specification

Assessment location

The EPA will take place under controlled conditions in a NET licensed assessment centre.

The EPAO must produce the following materials to support the observation of practical competence in a controlled environment:

- Net licensed independent assessor assessment materials which include:
 - training materials

- administration materials
- moderation and standardisation materials
- guidance materials
- grading guidance
- EPA guidance for the apprentice and employer

EPA Assessment method 2: Online knowledge assessment

Overview

In the test, the apprentice answers questions in a controlled and invigilated environment. It gives the apprentice the opportunity to demonstrate the knowledge mapped to this assessment method.

Rationale

This EPA method is being used because:

- it allows for the efficient testing of knowledge where there is an objectively correct answer
- it allows for flexibility of delivery administration in terms of when and how it is taken
- it allows for larger volumes of apprentices to be assessed at one time

Delivery

This method must be appropriately structured to give the apprentice the opportunity to demonstrate the knowledge and skills mapped to this EPA method to the highest available grade.

The online knowledge assessment will be computer based.

The online knowledge assessment will consist of 45 multiple-choice questions.

Multiple-choice questions will have four options, including one correct answer.

Apprentices must be given at least 10 days' notice of the date and time of the online knowledge assessment.

Test administration

Apprentices must have 90 minutes to complete the test.

The following equipment is allowed to be used during the online knowledge assessment:

- Computer with online facilities.

The online knowledge assessment is open book which means that the apprentice can refer to reference books or materials whilst taking the test.

In the test, the apprentice will be permitted to have:

- BS7671 current edition
- IET guidance note 3
- Short guide to building regulations

NET will provide these materials, the apprentice is not permitted to use their own copies in the assessment.

The online knowledge assessment must be taken in the presence of an invigilator who is the responsibility of the EPAO.

The EPAO must have an invigilation policy setting out how the online knowledge assessment must be conducted. It must state the ratio of apprentices to invigilators for the setting and allow the test to take place in a secure way.

The EPAO must verify the identity of the apprentice.

The EPAO is responsible for the security of the online knowledge assessment. The EPAO must ensure that their security arrangements maintain the validity and reliability of the online knowledge assessment.

Marking

The online knowledge assessment must be marked by NET licensed independent assessors or markers employed by the EPAO. They must follow a marking scheme produced by the EPAO. Marking by computer is allowed where question types support this.

A correct answer gets 1 mark.

Any incorrect or missing answers get zero marks.

The EPAO is responsible for overseeing the marking of the online knowledge assessment. The EPAO must ensure standardisation and moderation of written response test.

Assessment location

Apprentices must take the online knowledge assessment in a suitably controlled and invigilated environment that is a quiet room, free from distractions and influence.

The online test will take place in a NET licensed centre.

The invigilator will be the NET licensed independent assessor.

The EPAO is required to have an invigilation policy that will set out how the test is to be carried out. The EPAO is responsible for ensuring the security of any multiple-choice tests

they administer to ensure the test remains valid and reliable (this includes any arrangements made using online tools). The EPAO is responsible for verifying the identity of the person taking the test.

Question and resource development

Questions will be written by NET as the EPAO and must be relevant to the occupation. The EPAO should maintain the security and confidentiality of their questions. The EPAO must develop test specifications and question banks of sufficient size to prevent predictability and review them regularly (and at least once a year) to ensure they, and the questions they contain, are fit for purpose. The specifications, including questions relating to underpinning knowledge and skills must be varied, yet allow assessment of the relevant knowledge and skills. The specification must be relevant to the occupation and demonstrate how to assess the knowledge and skills shown in the mapping. It is recommended this is done in consultation with employers of this occupation. The EPAO should maintain the security and confidentiality of EPA materials when consulting employers. The questions must be unpredictable.

The EPAO must ensure that apprentices have a different set of questions in the case of resits and re-takes.

The EPAO will produce the following material to support this assessment method:

- a question bank
- test specification
- outline of the assessment method's requirements
- sample tests and mark schemes
- live tests and mark schemes

Grading

Observation of practical competence in a controlled environment

Fail - does not meet pass criteria

Theme KSBs	Pass Apprentices must demonstrate all of the pass descriptors
Preparing, planning and Health and Safety K1, S1, S2 S3 S6 S13	<p>Completes work using the relevant sources of technical information and specifications when planning and performing domestic electrical work. (S2, S6)</p> <p>Demonstrates planning, and correctly carries out and manage own work ensuring work is compliant and complete to the relevant standard with the correct use of personal protective equipment when undertaking domestic electrical work. (S3, S13)</p> <p>Applies statutory health and safety policies, procedures and regulations in line with company policies and legal requirements. (K1, S1)</p>
Installation of Circuits S4 S5 S8 S9	<p>Designs, plans, sets up and installs electrical and related electronic systems to meet the requirements of the brief. (S9)</p> <p>Utilises the relevant legislation; building regulations; industry guidance notes; relevant codes of practice, the requirements of the current edition of the Wiring Regulations (BS7671) and related standards. (S5)</p> <p>Selects and uses tools, materials, equipment and components in order to meet the requirements of the brief. (S8)</p> <p>Completes work in a tidy and safe manner, including restoration of the work area on completion of work and performing efficiently to complete the planned work operations. (S4)</p>

Testing and Condition reporting S7 S10 S11 S14 S15	<p>Applies and uses mathematical techniques, formulae, and calculations for the verification of test results (S7)</p> <p>Completes accurate inspection and testing of domestic electrical installations to diagnose and resolve domestic electrical and electronic faults for both initial and periodic testing of single-phase domestic installations (S10, S11)</p> <p>Demonstrates the installation and maintenance of domestic electrical and electronic equipment and components in accordance with electrical installation condition report. (S12)</p> <p>Demonstrates the correct completion of electrical certificates using a digital platform (S14, S15)</p>
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Online knowledge assessment

Grade	Minimum marks required	Maximum marks required
Fail	0	31
Pass	32	45

Overall EPA grading

Performance in the EPA determines the apprenticeship grade of:

- fail
- pass

NET licenced independent assessors must individually grade the observation of practical competence in a controlled environment in line with this EPA plan.

The EPAO must combine the individual assessment method grades to determine the overall EPA grade.

To achieve an overall pass, the apprentice must achieve at least a pass in all the assessment methods.

Apprentices who fail one or more assessment methods will be awarded an overall EPA fail.

Grades from individual assessment methods must be combined in the following way to determine the grade of the EPA overall.

Observation of practical competence in a controlled environment	Online knowledge assessment	Overall Grading
Fail	Pass	Fail
Pass	Fail	Fail
Pass	Pass	Pass

Re-sits and re-takes

If the apprentice fails one or more assessment method, they can re-sit or a re-take at their employer's discretion. The apprentice's employer needs to agree that a re-sit or re-take is appropriate. A re-sit does not need further learning, whereas a re-take does.

The apprentice should have a supportive action plan to prepare for a re-sit or a re-take.

The employer and EPAO agree the timescale for a re-sit or re-take. A re-sit is typically taken within 3 months of the EPA outcome notification. The timescale for a re-take is dependent on how much re-training is required and is typically taken within 3 months of the EPA outcome notification.

Failed assessment methods must be re-sat or re-taken within a 6-month period from the EPA outcome notification, otherwise the entire EPA will need to be re-sat or re-taken in full.

Re-sits and re-takes are not offered to an apprentice wishing to move from pass to a higher grade.

Roles and responsibilities

ROLES	RESPONSIBILITIES
Apprentice	<p>As a minimum, the apprentice should:</p> <ul style="list-style-type: none"> • complete on-programme training to meet the KSBs as outlined in the apprenticeship standard for a minimum of 12 months • complete the required amount of off-the-job training specified by the apprenticeship funding rules and as arranged by the employer and training provider • understand the purpose and importance of EPA • prepare for and undertake the EPA including meeting all gateway requirements
Employer	<p>As a minimum, the apprentice's employer must:</p> <ul style="list-style-type: none"> • select the training provider • work with the training provider to select the EPAO • work with the training provider, where applicable, to support the apprentice in the workplace and to provide the opportunities for the apprentice to develop the KSBs • arrange and support off-the-job training to be undertaken by the apprentice • decide when the apprentice is working at or above the apprenticeship standard and is ready for EPA • ensure the apprentice is prepared for the EPA • ensure that all supporting evidence required at the gateway is submitted in line with this EPA plan • confirm arrangements with the EPAO for the EPA in a timely manner, including who, when, where • provide the EPAO with access to any employer-specific documentation as required for example, company policies • ensure that the EPA is scheduled with the EPAO for a date and time which allows appropriate opportunity for the apprentice to meet the KSBs • ensure the apprentice is given sufficient time away from regular duties to prepare for, and complete the EPA

ROLES	RESPONSIBILITIES
	<ul style="list-style-type: none"> • ensure that any required supervision during the EPA period, as stated within this EPA plan, is in place • ensure the apprentice has access to the resources used to fulfil their role and carry out the EPA for workplace based assessments • remain independent from the delivery of the EPA • pass the certificate to the apprentice upon receipt
EPAO	<p>As a minimum, the EPAO must:</p> <ul style="list-style-type: none"> • conform to the requirements of this EPA plan and deliver its requirements in a timely manner • conform to the requirements of the apprenticeship provider and assessment register • conform to the requirements of the external quality assurance provider (EQAP) • understand the apprenticeship including the occupational standard and EPA plan • make all necessary contractual arrangements including agreeing the price of the EPA • develop and produce assessment materials including specifications and marking materials, for example mark schemes, practice materials, training material • maintain and apply a policy for the declaration and management of conflict of interests and independence. This must ensure, as a minimum, there is no personal benefit or detriment for those delivering the EPA or from the result of an assessment. It must cover: <ul style="list-style-type: none"> ○ apprentices ○ employers ○ independent assessors ○ any other roles involved in delivery or grading of the EPA • have quality assurance systems and procedures that ensure fair, reliable and consistent assessment and maintain records of internal quality assurance (IQA) activity for external quality assurance (EQA) purposes • appoint independent, competent, and suitably qualified assessors in line with the requirements of this EPA plan

ROLES	RESPONSIBILITIES
	<ul style="list-style-type: none"> • appoint administrators, invigilators and any other roles where required to facilitate the EPA • deliver induction, initial and on-going training for all their independent assessors and any other roles involved in the delivery or grading of the EPA as specified within this EPA plan. This should include how to record the rationale and evidence for grading decisions where required • conduct standardisation with all their independent assessors before allowing them to deliver an EPA, when the EPA is updated, and at least once a year • conduct moderation across all of their independent assessors' decisions once EPAs have started according to a sampling plan, with associated risk rating of independent assessors • monitor the performance of all their independent assessors and provide additional training where necessary • develop and provide assessment recording documentation to ensure a clear and auditable process is in place for providing assessment decisions and feedback to all relevant stakeholders • use language in the development and delivery of the EPA that is appropriate to the level of the apprenticeship • arrange for the EPA to take place in a timely manner, in consultation with the employer • provide information, advice, and guidance documentation to enable apprentices, employers and training providers to prepare for the EPA • confirm the gateway requirements have been met before they start the EPA for an apprentice • arrange a suitable venue for the EPA • maintain the security of the EPA including, but not limited to, verifying the identity of the apprentice, invigilation and security of materials • where the EPA plan permits assessment away from the workplace, ensure that the apprentice has access to the required resources and liaise with the employer to agree this if necessary • confirm the overall grade awarded • maintain and apply a policy for conducting appeals

ROLES	RESPONSIBILITIES
Independent assessor	<p>As a minimum, an independent assessor must:</p> <ul style="list-style-type: none"> • be independent, with no conflict of interest with the apprentice, their employer or training provider, specifically, they must not receive a personal benefit or detriment from the result of the assessment • have, maintain and be able to evidence up-to-date knowledge and expertise of the occupation • have the competence to assess the EPA and meet the requirements of the IQA section of this EPA plan • understand the apprenticeship's occupational standard and EPA plan • attend induction and standardisation events before they conduct an EPA for the first time, when the EPA is updated, and at least once a year • use language in the delivery of the EPA that is appropriate to the level of the apprenticeship • work with other personnel, where used, in the preparation and delivery of assessment methods • conduct the EPA to assess the apprentice against the KSBs and in line with the EPA plan • make final grading decisions in line with this EPA plan • record and report assessment outcome decisions • comply with the IQA requirements of the EPAO • comply with external quality assurance (EQA) requirements
Training provider	<p>As a minimum, the training provider must:</p> <ul style="list-style-type: none"> • conform to the requirements of the apprenticeship provider and assessment register • ensure procedures are in place to mitigate against any conflict of interest • work with the employer and support the apprentice during the off-the-job training to provide the opportunities to develop the KSBs as outlined in the occupational standard • deliver training to the apprentice as outlined in their apprenticeship agreement

ROLES	RESPONSIBILITIES
	<ul style="list-style-type: none"> • monitor the apprentice's progress during any training provider led on-programme learning • ensure the apprentice is prepared for the EPA • work with the employer to select the EPAO • advise the employer, upon request, on the apprentice's readiness for EPA • ensure that all supporting evidence required at the gateway is submitted in line with this EPA plan • remain independent from the delivery of the EPA

Reasonable adjustments

The EPAO must have reasonable adjustments arrangements for the EPA.

This should include:

- how an apprentice qualifies for reasonable adjustment
- what reasonable adjustments may be made

Adjustments must maintain the validity, reliability and integrity of the EPA as outlined in this EPA plan.

Internal quality assurance

Internal quality assurance refers to how the EPAO ensures valid, consistent and reliable EPA decisions. The EPAO must adhere to the requirements within the roles and responsibilities section and:

- have effective and rigorous quality assurance systems and procedures that ensure fair, reliable and consistent EPA regardless of employer, place, time or NET licensed independent assessor
- appoint NET licensed independent assessors who are competent to deliver the EPA and who:
 - have recent relevant experience of the occupation or sector to at least occupational level 3 gained in the last 5 years or significant experience of the occupation or sector
 - hold, or are working towards, an assessor qualification
 - have professional body membership with a JIB (gold card)

- meet the following minimum requirements:

□

current wiring regulations and full inspection and test certificate

- operate induction training for anyone involved in the delivery and assessment of the EPA
- provide training for NET licensed independent assessors in good assessment practice, operating the assessment tools and making grading decisions
- provide ongoing training for markers and invigilators
- provide standardisation activity for this apprenticeship standard for all NET licensed independent assessors:
 - before they conduct an EPA for the first time
 - if the EPA is updated
 - periodically as appropriate (a minimum of annually)
- conduct effective moderation of EPA decisions and grades
- conduct appeals where required, according to the EPAO's appeals procedure, reviewing and making final decisions on EPA decisions and grades
- have no direct connection with the apprentice, their employer or training provider.

Value for money

Affordability of the EPA will be aided by using at least some of the following:

- assessing multiple apprentices simultaneously where the method of assessment permits this
- conducting assessment methods on the same day

Professional recognition

This apprenticeship standard is recognised by the Joint Industry Board as conferring eligibility for recognition via an ECS Domestic Electrician Gold Card. As part of the application process the appropriate Health and Safety components will be recognised. for This apprenticeship standard is recognised by the Joint Industry Board as conferring eligibility for recognition via an ECS Domestic Electrician Gold Card. As part of the application process the appropriate Health and Safety components will be recognised.

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Mapping of KSBs to assessment methods

Knowledge	Assessment methods
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.	Observation of practical competence in a controlled environment
K2 Personal protective equipment (PPE) that should be used when undertaking electrical work, the correct selection of PPE and how to use different PPE.	Online knowledge assessment
K3 Understand how to, and importance of, restoring the work area to a tidy and safe state on completion of work.	Online knowledge assessment
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.	Online knowledge assessment
K5 Importance of customer service and effective customer service principles and techniques, taking account of the differences between people and groups of people with respect to equality and diversity.	Online knowledge assessment
K6 Understand key organisations and their purpose within the electrical installation and maintenance industry, the domestic electrician's role within the industry, and career progression routes.	Online knowledge assessment

K7 Relevant legislation pertaining to Domestic Electrical work including building regulations; industry guidance notes; relevant codes of practice, the requirements of the current edition of the Wiring Regulations (BS7671) and related standards.	Online knowledge assessment
K8 Relevant sources of technical information and guidance specifically for domestic electrical installation and maintenance work, mainly including electrical drawings and technical specifications and why and how these should be used.	Online knowledge assessment
K9 Necessary mathematical techniques, formulae, and calculations that underpin a Domestic Electrician's work.	Online knowledge assessment
K10 Range of tools, materials, equipment, and components used when performing domestic electrical work, and how to identify and use them safely.	Online knowledge assessment
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 and smart home applications and devices.	Online knowledge assessment
K12 Process and procedures for the design, planning, set up, and installation of domestic electrical and electronic systems.	Online knowledge assessment
K13 Methods of terminating and connecting cables in domestic electrical wiring systems, installations, and equipment.	Online knowledge assessment

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.	Online knowledge assessment
K15 	Online knowledge assessment
Importance of accurate preparation, completion, and maintenance of relevant work documentation including observations, test results and certification documents.	
K16 How to prepare written quotes and estimates in a professional manner.	Online knowledge assessment
K17 Application of information technology in the Domestic electrician industry, such as completion of test certificates and work documentation.	Online knowledge assessment
K18 Identify current digital learning platforms, and platforms used for business communication and collaboration.	Online knowledge assessment
K19 Understand the requirements for continual personal development within the industry and the opportunities for career progression.	Online knowledge assessment

Skill	Assessment methods
S1 Maintain the safety of self and others by applying statutory health and safety policies, procedures, and regulations when conducting domestic electrical work.	Observation of practical competence in a controlled environment
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.	Observation of practical competence in a controlled environment
S3 Correctly identify and use personal protective equipment (PPE) that should be used when undertaking domestic electrical work.	Observation of practical competence in a controlled environment
S4 Carry out work in a tidy and safe manner, including restoration of the work area on completion of work.	Observation of practical competence in a controlled environment
S5 Apply relevant legislation; building regulations; industry guidance notes; relevant codes of practice, the requirements of the current edition of the Wiring Regulations (BS7671) and other relevant standards while carrying out work.	Observation of practical competence in a controlled environment
S6 Use relevant sources of information and guidance for domestic electrical installation and maintenance work, typically including electrical drawings and technical specifications.	Observation of practical competence in a controlled environment
S7 Apply and use necessary mathematical techniques, formulae, and calculations that underpin a Domestic Electrician's work.	Observation of practical competence in a controlled environment

S8 Safely and correctly use a range of tools, materials, equipment, and components relevant to performing domestic electrical work.	Observation of practical competence in a controlled environment
S9 Design, plan, set up, and install domestic electrical and electronic systems including terminating and connecting cables in domestic electrical wiring systems, installations, and equipment.	Observation of practical competence in a controlled environment
S10 Inspect and test domestic electrical Installations using the correct test equipment.	Observation of practical competence in a controlled environment
S11 Apply diagnostic and problem-solving techniques to identify, assess and resolve domestic electrical and electronic faults for both initial and periodic testing requirements of single-phase installations.	Observation of practical competence in a controlled environment
S12 Install and maintain domestic electrical and electronic equipment and components, including domestic heating systems, comfort and convenience technologies, heat pumps, solar panels, Electric Vehicle (EV) charging points and devices.	Observation of practical competence in a controlled environment
S13 Carry out and manage own work ensuring work is compliant to the relevant standard.	Observation of practical competence in a controlled environment
S14 Record work accurately using correct processes including completion and maintenance of work documentation, recording of test results and preparation of appropriate certification.	Observation of practical competence in a controlled environment

S15 Use relevant digital learning platforms and business communication and collaboration applications.	Observation of practical competence in a controlled environment
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Behaviour	Assessment methods
B1 Acts responsibly 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.	Validated by employer
B2 Embraces a sustainable working culture, taking responsibility for the careful use of resources and disposal of work waste.	Validated by employer
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.	Validated by employer
B4 Focuses on the requirements of the customer (internal and external), seeking to provide outstanding customer services, promoting green technologies when appropriate, meeting, or exceeding customer requirements, including customers with diverse needs and transitioning to green technologies.	Validated by employer
B5 Manages own time efficiently to complete work operations and effectively schedule work within the confines of job responsibility.	Validated by employer
B6 Committed to keeping up to date with industry best practice, relevant legislation and technical standards and undertaking personal CPD in line with industry best practice.	Validated by employer