

Skills for a greener world

EEA Level 3 End-point Assessment for Power Industry Overhead Linesperson

## **Apprentice Guide**

QAN 610/6031/8 ST1330 V10 V1.1 V1.2



## Apprentice Guide for

## EEA Level 3 End-point Assessment for Power Industry Overhead Linesperson

#### QAN 610/6031/8

Updates to this Guide	4
Introduction	7
How This Apprentice Guide Is Organised	7
How to Use This Guide	7
Section 1: The Basics	8
What is an Apprenticeship Standard?	8
What is an Assessment Plan?	8
What is an end-point assessment (EPA)?	9
What are the Gateway Requirements?	9
What is the EPA Specification?1	O
Section 2: Apprentice EPA Journey	1
Let us Begin Your EPA Journey1	1
How will you be assessed in the end-point assessment?1	1
Your EPA Journey in a Diagram1	3
Section 3: End-point Assessment Components	5
Component 1: Multiple-choice test	5
Component 2: Interview based on an EPA portfolio2	O
EPA Portfolio Requirements	2
Practice Component 2: Interview based on an EPA Portfolio2	5
Component 3: Trade test practical assessment with questions2	5
Practice Component 3: Trade test practical assessment	2
Component 4: Trade test technical interview	3



Practice Component 4: Trade test technical interview	34
Overall grading	34
Section 4: Resits and retakes	35
Appendix A: Glossary	37
Appendix B: EPA Portfolio Evidence Log	39
Distribution	39
Appendix B: EPA Portfolio Evidence Log	41
Transmission	/11



## Updates to this Guide

Since the first publication of Energy & Environment Awards Power Industry Overhead Linesperson (PIOL) Apprentice Guide, the following updates have been made.

Version	Date first published	Section updated	Page(s)
v2.0	May 2025	Rebranded	All
v1.1	November 2024	Standard updated (V1.1) to include statement 'The apprentice may choose to end the assessment method early.' For 3 assessment methods	22, 32, 34
V1.0	October 2024	First published	All





## At A Glance Component 1: Multiple-choice test

Date(s):	
Time:	
Location:	
Examination Conditions:	Controlled by an invigilator
Additional Requirements:	
Assessed and marked by:	Energy & Environment Awards

## -

## At A Glance Component 2: Interview based on an EPA portfolio

Date(s):	
Time:	
Location:	
Examination Conditions:	With an Energy & Environment Awards Independent assessor at your employer's premises or a suitable venue for example a training provider's premises.
Additional Requirements:	EPA Portfolio to be completed and submitted at Gateway
Assessed and marked by:	1 independent assessor, approved by Energy & Environment Awards.



### At A Glance Component 3: Trade test practical assessment

Date(s):	
Time:	
Location:	
Examination Conditions:	Conducted in a simulated environment which reflects your natural work environment
Additional Requirements:	Both the: <ul> <li>multiple-choice test; and</li> <li>interview based on an EPA portfolio</li> </ul>
	must be completed and passed before the trade test practical assessment with questions can take place.
Assessed and marked by:	1 employer assessor, approved by Energy & Environment Awards.



## At A Glance Component 4: Trade test technical interview

Date(s):	
Time:	
Location:	
Examination Conditions:	With an employer assessor in your place of work
Additional Requirements:	Both the:
	<ul> <li>multiple-choice test; and</li> </ul>
	<ul> <li>interview based on an EPA portfolio</li> </ul>
	must be completed and passed before the trade test technical interview can take place.
Assessed and marked by:	1 employer assessor, approved by Energy & Environment Awards



#### Introduction

Energy & Environment Awards has been selected by your employer to carry out end-point assessment (EPA) and it is our job to ensure that you are assessed fairly.

#### How This Apprentice Guide Is Organised

✓ Section 1:

What is in the Apprentice Guide?

✓ Section 2:

An Apprentice's End-point Assessment Journey

✓ Section 3:

**End-point Assessment Components** 

#### How to Use This Guide



This guide has been split into 3 sections. You can dip into each section that you are working on where you will find useful information, practical advice, tips you need and useful dates to successfully complete your EPA.

Throughout we have used headings and cross referenced to our EPA Power Industry Overhead Linesperson (PIOL) Specification which provides details of the EPA components.



#### Section 1: The Basics

### What is an Apprenticeship Standard?



An apprenticeship standard is a description of your apprenticeship and it is based on the Power Industry Overhead Linesperson standard, which was written by employers. It contains the Overhead Linesperson's job profile, and describes the knowledge, skills and behaviours (KSBs):

- Knowledge: (as part of KSBs) specific information, technical detail, and 'know-how' identified as part of the apprenticeship standard that must be evidenced during your end-point assessment
- Skills: (as part of KSBs) the practical application of knowledge identified as part of the apprenticeship standard that must be evidenced during end-point assessment
- Behaviours (as part of KSBs) specific mindsets, attitudes or approaches identified as part of the apprenticeship standard that must be evidenced during end-point assessment

The standard can be accessed via the link below:

https://skillsengland.education.gov.uk/apprenticeship-standards/st1330-v1-0 Select the occupational standard tab.

#### What is an Assessment Plan?

An Assessment Plan is also written by employers and provides details of what is required for you to pass your end-point assessment. It includes details of what you will be assessed on, how each assessment will take place, what methods will be used and who will assess you.

Energy & Environment Awards designed the end-point assessment (EPA) to meet the requirements of the Assessment Plan. The Assessment Plan can be accessed via the link below:

https://skillsengland.education.gov.uk/apprenticeship-standards/st1330-v1-0 Select the EPA plan tab.



### What is an end-point assessment (EPA)?

The end-point assessment is the assessments you take at the end of your apprenticeship. You will typically spend 30 months on-programme working towards your standard. You are required to spend a minimum of 12 months on-programme. After this you have a Gateway meeting with your employer or training provider to confirm you are ready for the end-point assessments. The words end-point means that you will be assessed at the end of your on-programme (training) to confirm you have met the standard. Your EPA period will typically last 6 months. The end-point assessments consist of 4 components:

- Multiple-choice test
- Interview based on your EPA portfolio
- Trade test practical assessment with questions
- Trade test technical interview

Each component has a provisional grade, and each grade is carried forward to award a final grade. You must pass all 4 components to pass your apprenticeship.

The final grade can be a Fail, Pass or Distinction.

## What are the Gateway Requirements?

Gateway is a meeting where your employer, training provider and you ensure that you are confident that you can demonstrate all the KSBs defined in the apprenticeship standard and you are ready for EPA. After the meeting, your training provider will confirm the outcomes of the Gateway meeting by sending a signed document to Energy & Environment Awards. The document confirms that you have met the following Gateway requirements:

- achieved English and mathematics qualifications in line with the apprenticeship funding rules
- have passed an Emergency first aid 1 day course
- compiled an EPA portfolio, which your interview based on an EPA portfolio will be based



Your training provider will send copies of these documents to Energy & Environment Awards.

What is the EPA Specification?



The end-point assessment specification provides details of:

- the assessment methods used in your EPA
- KSBs that are covered by each assessment
- KSBs amplification and guidance

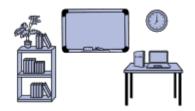
The Specification can be accessed via the link below:

https://energyenvironmentawards.co.uk/epa/power-industry-overhead-linesperson/



## Section 2: Apprentice EPA Journey Let us Begin Your EPA Journey.

Find a quiet place and read on....



Power Industry Overhead Linesperson is a core and options apprenticeship standard. You must be trained and assessed against the core and one of the following specialisms:

- Distribution
- Transmission

Your EPA journey consists of 3 elements:

- A training programme with on the job, off the job elements, typically 30 months.
- Gateway meeting window
- End-point Assessment (EPA) typically 6 months

Your journey begins with the training program. Your employer and training provider are responsible for this part. This is where you will gain the required Knowledge, Skills and Behaviours (KSBs).

How will you be assessed in the end-point assessment?

You will be assessed on the following components:

- 1. Multiple-choice test
- 2. Interview based on your EPA portfolio
- 3. Trade test practical assessment with questions
- 4. Trade test technical interview

The multiple-choice test and interview based on an EPA portfolio **must be completed and passed before** the trade test practical assessment and trade test technical interview can take place.

It is important for you to keep a record of when your 4 components are scheduled. We suggest you use the 'At a Glance' tables on page 5.



You must pass all 4 components to achieve this qualification. For further guidance refer to Section 3 End-point Assessment Components.

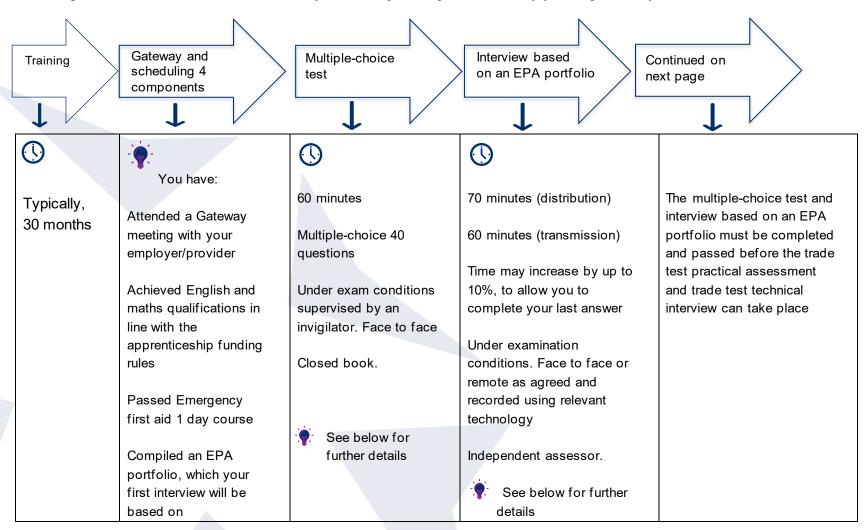
#### Reasonable adjustments

A reasonable adjustment is any action that helps to reduce the effect of a disability or difficulty that places you at a substantial disadvantage during assessments. If this applies to you make sure you tell your training provider who can make an application for a reasonable adjustment to Energy & Environment Awards on your behalf.

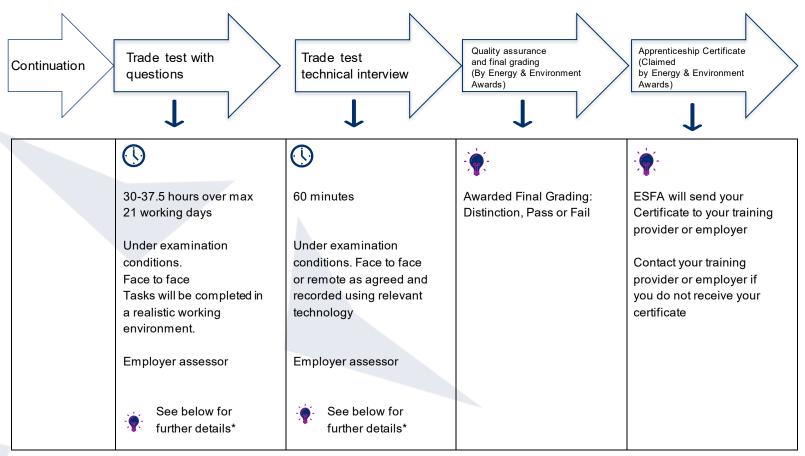


## Your EPA Journey in a Diagram

The diagram below illustrates the order of your EPA journey from the day you register to your final certification:







<sup>\*</sup>For further details refer to Section 3 in this Apprentice Guide or Section 2 of the Specification.



## Section 3: End-point Assessment Components

Now let us continue your journey through EPA. There are 4 components that you must pass to be awarded a certificate.

### Component 1: Multiple-choice test

#### Overview

The multiple-choice test is computer or paper based. You will have 60 minutes to complete the test. The test consists of 40 questions.

The multiple-choice questions will have four possible answers of which one will be correct.



## Step-by-Step Guide

The table below provides a step-by-step guide on how the multiple-choice test will be carried out:

Who will	You will sit your multiple-choice test in the presence of an invigilator.
start and	
finish my	
multiple-	
choice	
test?	
What	The test may be paper-based or taken online. Your training provider
format will	will let you know what the format of your test is.
my test	
take?	All other aspects of the test are exactly the same, including:
	• content
	• timings
	question types
	• scoring



How will the question appear in a paperbased test?

Here is an example of how the question will appear:

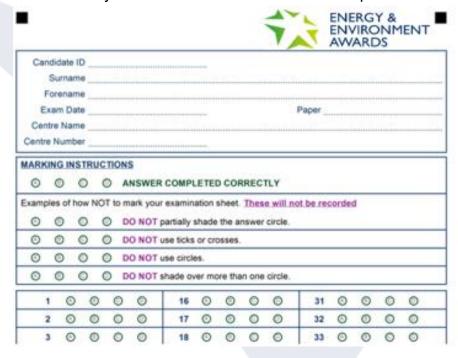
#### **Question 1**

In a workplace, who is responsible for maintaining health and safety?

#### Possible answers

- a) Employers
- b) Safety managers
- c) Most senior person on-site
- d) | Everyone

You must **select one answer** that you think is correct. You will be provided with an answer sheet where you will be expected to shade in the answer you have selected. Here is an example:

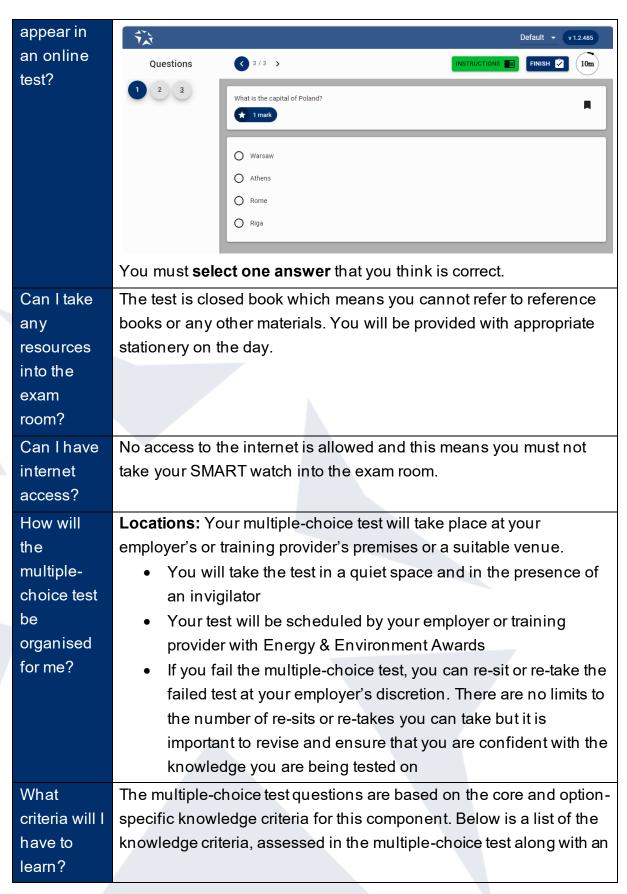




Always have a go even if you are not sure that it is the correct answer.

How will the question Here is an example of how the question will appear in an online version of the test:







	indication of t	he number of questions, targeting that criterion, that will
AND	be asked in a multiple-choice test paper:	
How many	Number of Questions	Knowledge
questions will be	Core	
asked on each criteria?	3 - 5	<b>K1:</b> Power network industry appreciation: generation of electricity, Transmission Network Operator, Distribution Network Operator (DNO), Independent Distribution Network Operator (IDNO), Independent Connections Provider (ICP), supplier, generators -role and boundary of operation.
	1 - 2	<b>K2</b> : The office of gas and electricity markets (Ofgem) - their role and powers.
	1 - 3	<b>K3</b> : Power industry regulations: Electricity at Work Regulations, and The Electricity Safety, Quality and Continuity Regulations (ESQCR). Their purpose and basic requirements.
	3 - 5	<b>K6</b> : Business operation considerations: how activities may impact customers, financial constraints (budgets), penalties and rewards, ethical business practices.
	8 - 10	K9: Health and safety regulations, standards, and guidance - their purpose and basic requirements: asbestos awareness, Construction Design Management (CDM), Health and Safety at Work Act, Control of Substances Hazardous to Health (COSHH), Lifting Operations and Lifting Equipment Regulations (LOLER), lone working, Management of Health and Safety at Work, Provision and Use of Work Equipment Regulations (PUWER), Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR), and warning signs and symbols.
	1 - 3	<b>K16</b> : The Environmental Protection Act - its purpose and basic requirements. Environmental management systems standard.
	1 - 2	K19: Access to private land, streets and wayleaves.



	5 - 7	<b>K27:</b> Mathematical theory in power engineering. Round numbers, scientific notation, percentages and ratios.  Areas, perimeters, volumes and surface areas of simple shapes. Scales, tables, graphs and charts. Pythagoras' Theorem and sin, cos, and tan in right-angled triangles. Substitution of numerical values into simple engineering formulae. The sequence of arithmetic operations.
	6 - 8	<b>K28:</b> Mechanical theory in power engineering. Mass, force and weight. Parameters of mechanical systems. The components of hydraulic and pneumatic systems. Statics and forces. Energy, work and power. The parameters of material tensile strengths. The parameters of mechanical advantage. The lever principle and theorem of movement.
	3 - 5	<b>K29:</b> Electrical theory in power engineering. Circuit technology. Magnetism and electromagnetism. Transformers.
	Power are not specific	Industry Overhead Linesperson role as a whole and focussed on specific plant, machinery, or employer-c processes. For amplification and guidance refer to 3 of the PIOL Specification (see link on page 10).
What should I do to prepare for the multiple-choice test?	<ul> <li>You should be prepared to:</li> <li>revise the core knowledge criteria listed above (K1, K2, K3, K6, K9, K16, K19, K27, K28 and K29)</li> <li>ask your employer or training provider for additional questions that they have prepared to support you</li> <li>attend the multiple-choice test which will last 60 minutes</li> <li>While on-programme, the employer or training provider must ensure you are:</li> <li>familiar with all areas assessed by the multiple-choice test as listed above</li> <li>supported in completing a practice test and provide you with constructive feedback to enable you to identify areas you need to carry out further revision in</li> </ul>	



#### Practice Component 1: Multiple-choice test



You should have an opportunity to have a practice multiple-choice test which mirrors the real assessment. The practice multiple-choice test would be set up by your employer or training provider using the structure in the table above. The feedback provided will assist you with preparing for the actual multiple-choice test.

#### Component 2: Interview based on an EPA portfolio

#### Overview

The first interview is based on your EPA portfolio. It is to allow you to demonstrate how you have met the KSBs in order to carry out your occupational role as a Power Industry Overhead Linesperson effectively and safely. The interview allows for testing of responses where there are a range of potential answers.



#### Step-by-Step Guide

The table below provides a step-by-step guide on how the interview based on an EPA portfolio will be carried out:

Who will	1 independent assessor, appointed by Energy & Environment
assess me?	Awards will assess you under examination conditions.
How will the	Locations: Your interview will take place at your employer's
interview be	premises or a suitable venue.
organised?	
	Time:
	The interview must last:
	<ul> <li>70 minutes for apprentices following the</li> </ul>
	distribution option
	<ul> <li>60 minutes for apprentices following the</li> </ul>
	transmission option
	The independent assessor has the option to increase the time of
	your interview by up to 10%, to allow you to complete your last
	answer.
	Your interview will be:
	a discussion between you and the independent assessor



	<ul> <li>face to face or remote, as agreed</li> <li>assessed and outcomes will be recorded by the assessor on official Energy &amp; Environment Awards interview documents</li> <li>recorded using the relevant technology such as Microsoft Teams or an audio recording device</li> <li>You will have access to your EPA portfolio throughout the interview.</li> </ul>
What topics will I have to cover?	The interview focuses on the four tasks in your EPA portfolio:  1. Communication and working with others  2. Sustainability  3. CPD and improvement activities  4. ONE of the following:  a. Working on the highway, location and avoidance of utilities and customer service (distribution option)  b. Locating and avoiding of utilities (transmission option)
	For further details refer to 'Knowledge, Skills and Behaviours (KSBs) coverage in the PIOL Specification on pages 19 – 30.  A link to the PIOL Specification is available on page 10.
How many questions will I be asked?	<ul> <li>A minimum of:         <ul> <li>8 questions for apprentices following the distribution option</li> <li>6 questions for apprentices following the transmission option</li> </ul> </li> <li>Set questions which may be contextualised to the contents of your portfolio</li> <li>Follow-up questions in order to seek clarification</li> </ul>
Preliminary Grading	The independent assessor will award a provisional grade. You must pass <b>ALL</b> the pass criteria in order to achieve a pass. To achieve a Distinction you must successfully achieve <b>ALL</b> the Pass criteria and <b>ALL</b> of the Distinction criteria.



Overall grading for this	Fail, Pass or Distinction.
component	r an, r add or Broantoadin.
Can I finish the	You may choose to end the interview early. You must be
interview	confident you have demonstrated competence against the
early?	assessment requirements for the interview. The independent assessor will ensure you are fully aware of all assessment requirements and understand the implications of ending the interview early. The independent assessor may suggest the interview continues. The independent assessor will document your request to end the assessment early.
Can the independent assessor end the interview early?	The independent assessor cannot suggest or choose to end the assessment methods early, unless in an emergency.

## **EPA Portfolio Requirements**

The requirements are as follows:

#### **EPA Portfolio Template**

Throughout the on-programme part of your apprenticeship you must compile an EPA portfolio to support you in your first interview. During the interview the independent assessor will ask questions based on the evidence contained in your EPA portfolio.

For further guidance refer to:

- Section below 'How do I organise my portfolio of evidence?'
- PIOL Specification Section 5: Guidance on EPA portfolio

#### How do I organise my EPA portfolio?

#### Step-by-Step Guide

You must complete an EPA portfolio template. You should request the EPA Portfolio Template from your provider



The EPA portfolio template comprises four tasks to support the compilation of the portfolio. Each task should help you focus on the specific knowledge, skills and behaviours that will be assessed in the interview.

#### For each task there is:

- a series of questions to be answered
- a text box following each question for you to provide your response. These boxes will expand to take more text; however, quality of answer is more important than quantity. You will be able to use your answers as prompts in the interview
- tables for you to record evidence that supports the examples provided in response to the questions. A copy of the tables can be found in Appendix B

#### Your EPA portfolio is **not assessed**. It serves the following purposes:

- A carefully prepared EPA portfolio will support you during the interview
- Your organised EPA portfolio will allow you to refer to examples and discuss the evidence with the independent assessor
- It allows the assessor to review it before the interview to help focus and contextualise the questions that you will be asked.



#### What should I include in my EPA portfolio?

#### Quality vs quantity

You should be supported in selecting evidence for your EPA portfolio by your employer or training provider.

We would advise you to choose the best pieces of evidence to support the answer to each question in the EPA portfolio template. The completed EPA portfolio should contain the four tasks with your responses and at least one piece of evidence backing up each of the questions. A piece of evidence may cover more than one question. No other evidence should be included.

#### Examples of acceptable evidence:

- workplace documentation/records, for example job task sheets/job card/times sheets, equipment maintenance/service records related to you
- witness statements signed and dated by coaches/trainers



- any employer contributions should focus only on direct observation of evidence (for example witness statements) rather than opinions
- annotated photographs/diagrams
- video clips (maximum total duration 10-minutes); you must be in a view and identifiable

The above is not a definitive list. You can include other relevant evidence sources.



You must not include in your portfolio any methods of self-assessment.

#### Evidence must be:

- produced by you (authentic)
- relevant to the task
- cross referenced and easily accessible in the portfolio
- produced during the time you were carrying out your on-programme training

### What can I do to prepare for the interview?

#### You should:

- ensure there is quality evidence to cover the answer to each question in the EPA portfolio template
- be familiar with the structure of your EPA portfolio
- know the tasks/KSBs covered by the interview
- know where you have referenced your evidence by referring to your EPA
   Evidence Log. A copy is included in Appendix B
- know how you will be graded

#### The role of your employer or training provider

Employers or training providers are expected to support you in preparing your portfolio by:

- providing clear instruction and deadlines to allow you to plan and compile your portfolio in preparation for the Gateway meeting
- advising on which pieces of evidence to select
- authenticating evidence as valid
- signing off the EPA portfolio



 submitting the portfolio to Energy & Environment Awards as part of Gateway requirements.

#### Practice Component 2: Interview based on an EPA Portfolio

You should have an opportunity to have a practice interview which mirrors the real assessment. The practice interview would be set up by your employer or training provider using the structure in the table above.

#### Component 3: Trade test practical assessment with questions

#### Overview

A trade test practical assessment involves an employer assessor, approved by Energy & Environment Awards observing and questioning you undertaking tasks in a realistic working environment. The task(s) must be capable of being completed by a competent distribution cable jointer.

#### Step-by-Step Guide



The table below provides a step-by-step guide on how the trade test practical assessment will be carried out:

Structure of your practical	The total assessment time is 30-37.5 hours	
assessment	The trade test practical assessment may take place in parts but must be completed over no more than 21 working days. A working day is typically considered to be 7.5 hours long. The reason for this split is that you will need to complete several tasks, which may require work on different apparatus.	
Where will the assessment take place?	<ul> <li>In a simulated environment which closely relates to your natural work environment</li> </ul>	
What knowledge, skills and behaviours	Prepare for power overhead lines activities (CORE)  K20: Planning, prioritising, organisation, and time management techniques for self and working party.	



## (KSBs) do I have to demonstrate during the practical assessment?

- **S1**: Review drawings, instructions, or information to understand the task for example, work instructions, design specifications, utility plans, on-line search documents.
- **S2**: Prioritise and plan work with consideration for safety, environmental impact, quality, and cost.
- **S3**: Identify and organise resources to complete tasks for example, consumables.
- **\$17**: Select, check, and prepare resources.

#### Organise and supervise a working party (CORE)

**S6**: Receive and clear a safety document (permit to work). Brief a working party.

**B3**: Take ownership for work and responsibility for its impact on others. For example, self-motivated, disciplined in the approach to work tasks, identify and deal appropriately with distractions to enable tasks to be achieved, work carried out in line with standards.

## Maintain work site health, safety, and environmental compliance (CORE)

**K7**: The hazards associated with work on or near electrical power networks.

**K10**: Risk assessments and method statements. Emergency procedures. Personal protective equipment (PPE). Manual handling. Fire safety.

**K14**: Asset security requirements.

**K18**: Recycling and waste management requirements.

**S7**: Identify hazards and risks and apply control measures.

**S8**: Apply health and safety procedures in compliance with regulations, standards, and guidance. For example, safe access and egress, demarcate the work area, working at height, confined spaces, COSHH.



**\$10**: Apply measures to leave power work environments in a safe and secure condition for example, anticlimbing guards, danger notices, barriers, lighting.

**\$12**: Segregate waste for reuse, recycling, and waste transfer.

**B1**: Prioritise health and safety. For example, risk aware, minimise risks, and proactively work towards preventing accidents.

#### Work at height (CORE)

**K12:** Working at height awareness. Safe access and egress methods: hierarchy of methods, inspection, operation, and maintenance requirements. Exclusion zone requirements to avoid risk from falling objects.

**K13:** Working at height personal protective equipment: harnesses, fall restraint and arrest equipment. User inspection, operation, and maintenance requirements. Rescue from height equipment and methods.

**\$14:** Use working at height equipment for example, mobile working platforms, scaffolding, ladders.

**S15:** Select, inspect, and use personal climbing equipment to access and manoeuvre to a work position at height on overhead line plant and apparatus.

**\$16:** Fit and operate a rescue device at height.

#### Identify apparatus (CORE)

**S4:** Identify apparatus to be worked on.

#### Tools and equipment (CORE)

**S13**: Select, check, prepare, use or operate, and store personal tools and equipment.

#### **Communicate with others (CORE)**

**K21:** Communication techniques. Industry terminology. Adapting style to audience.



**\$20:** Communicate with others to give and receive information for example, colleagues, customers, and stakeholders.

**B5:** Perform in a professional manner for example, polite, courteous, and respectful to customers and members of the public.

#### Complete work records (CORE)

**K23**: Documentation requirements; importance of accurate records.

\$18: Record information.

#### Work on or in proximity to live apparatus (Distribution)

**K34:** Working on live apparatus and working in proximity to live apparatus protocols. Justification for live working.

**\$29:** Follow procedures for working on or in proximity to live apparatus.

\$30: Select and use specialist LV live working PPE.

#### Distribution lifting operations (Distribution)

**K38:** Distribution rigging techniques on conductors and structures capable of carrying up to 132kv.

**S26:** Select and operate lifting equipment in overhead lines distribution work for example, cranes and winches.

## Install distribution support structures and their support mechanisms (Distribution)

**K35:** Distribution support structures and their support mechanisms installation requirements.

**K36:** Distribution network excavation methods and requirements.

**S31:** Erect overhead lines plant and apparatus for example, poles, support mechanisms, stays.

Install fixed and temporary earthing (Distribution)



**K41:** Awareness of domestic and industrial supply earthing. Earthing installation requirements. Earth electrode testing.

**\$32:** Install circuit main earths (CMEs) and additional (drain) earths.

**S33:** Install fixed earthing conductors and carry out earth electrode testing.

#### Install distribution conductors (Distribution)

**K31:** The installation and jointing methods of common conductor types; causes and consequences of common faults.

**K42:** Cut out requirements.

\$34: Install cut outs.

**S35:** Install or replace conductors, insulators and ancillary equipment on overhead line plant or apparatus including sagging, tensioning and termination where required.

## Install and dismantle pole mounted plant and apparatus (Distribution)

**K39:** Pole mounted plant and apparatus: installation, commissioning, and dismantling requirements.

**S36:** Install, connect, and commission pole mounted plant and apparatus for example, transformers, pole mounted circuit breakers, and switchgear.

**\$37:** Dismantle pole mounted plant and apparatus for example, transformers, pole mounted circuit breakers, and switchgear.

#### **Conduct electrical testing (Distribution)**

**K45:** Low voltage electrical testing requirements and result interpretation.

**S38:** Conduct pre-energisation tests.

**\$39:** Conduct post-energisation (commissioning) checks.

**S41:** Interpret testing procedure results and action required.



#### Problem solving and fault-finding (Distribution)

**K32:** The symptoms and causes of common faults on electrical power circuits, plant and apparatus. Problem solving and fault-finding techniques: non-invasive visual examinations, testing procedures. Root cause analysis.

**S43:** Recognise fault conditions and identify the root cause.

**S44:** Replace components or resolve issues for example, replace high resistance joints or damaged conductor.

#### Make and break live connections (Distribution)

**K44:** Low voltage operational switching and testing requirements.

**S40:** Perform testing procedures before and after switching operations.

**\$42**: Operate switchgear and fuses making and breaking live conductor connections.

#### Work in proximity to live apparatus (Transmission)

**K48:** Working in proximity to live apparatus protocols.

**S46:** Follow procedures for working on or in proximity to live apparatus.

**S48:** Check overhead line plant and apparatus is safe to access, install flag and check wristlets if required.

#### Transmission lifting operations (Transmission)

**K51:** Transmission rigging techniques on conductors and transmission towers.

**\$47:** Select and operate lifting equipment in overhead lines transmission work for example, cranes and winches.

#### Install access equipment (Transmission)

**S49:** Install access equipment for example, platforms, ladders, and spacer trollies.



	Install temporary earthing (Transmission)
	<b>K52:</b> High voltage temporary earthing requirements.
	K53: Management of circulating currents.
	S50: Install high voltage temporary earthing equipment.
	Install and test transmission conductors (Transmission)
	K47: The types and characteristics of common transmission
	conductors and joints; causes and consequences of common
	installation faults.
	S51: Install or replace conductors, insulators and ancillary
	equipment on overhead line plant or apparatus including sagging, tensioning and termination where required.
	S53: Connect spacers to conductors.
	Test compression joints (Transmission)
	S52: Carry out conductor compression jointing
	S54: Test compression joints.
	For amplification and guidance refer to the PIOL
	Specification:
	https://energyenvironmentawards.co.uk/epa/power-industry-
	overhead-linesperson/
What tasks will	The task(s) must allow you to undertake the activities required for
I have to cover?	a practical assessment. For further details refer to 'Knowledge,
COVCI	Skills and Behaviours (KSBs) Coverage' in Section 2 of the PIOL
\\/h at	Specification. Refer to link above.
What resources can I	Equipment and resources needed for the practical assessment will be:
use?	provided by your employer
	<ul> <li>the tools, equipment and PPE required for the job</li> </ul>
	<ul> <li>in good and safe working condition</li> </ul>
	Relevant work instructions/manuals must be available in hard
	copy or electronically.



	1				
How many	The employer assessor:				
questions will I be asked?	<ul> <li>will ask a minimum of 10 open questions from your</li> </ul>				
be asked?	employer's question bank				
	may ask follow- up questions in order to seek clarification				
	from you				
Who will	An employer assessor, approved by Energy & Environment				
assess me?	Awards.				
Provisional	The employer assessor will award a provisional grade.				
Grading	You must pass <b>ALL</b> the pass criteria in order to achieve a pass.				
	To achieve a Distinction you must successfully achieve <b>ALL</b> the				
	Pass criteria and <b>ALL</b> of the Distinction criteria.				
Overall grading					
for this	Fail, Pass or Distinction				
component					
Can I finish the	You may choose to end the trade test practical early. You must be				
trade test confident you have demonstrated competence against the a practical early?					
practical carry :	requirements for the trade test practical. The employer assessor will				
	ensure you are fully aware of all assessment requirements and understand the implications of ending the trade test practical early. The				
	employer assessor may suggest the trade test practical continues. The				
	employer assessor will document your request to end the assessment				
	early.				
Can the	The employer assessor cannot suggest or choose to end the trade test				
employer	practical early, unless in an emergency.				
assessor end					
the trade test practical early?					
practical carry:					

#### Practice Component 3: Trade test practical assessment

You should have an opportunity to have a practice trade test which mirrors the real assessment. A practice trade test would be set up for you by your employer or training provider using the structure in the table above.



## Component 4: Trade test technical interview

#### Overview

The trade test technical interview allows you to demonstrate the KSBs mapped to this assessment method. The interview allows for testing of responses where there are a range of potential answers that cannot be tested through the multiple-choice test.



#### Step-by-Step Guide

The table below provides a step-by-step guide on how the trade test interview will be carried out:

Who will	1 employer assessor, approved by Energy & Environment				
assess me?	Awards will assess you under examination conditions.				
How will the	Locations: Your interview will take place at your employer's				
interview be	premises or a suitable venue.				
organised?					
	Time: Your technical interview will be 60 minutes				
	Your interview will be:				
	<ul> <li>a discussion between you and the employer assessor</li> </ul>				
	<ul> <li>face to face or remote, as agreed</li> </ul>				
	assessed and outcomes will be recorded by the assessor				
	on official Energy & Environment Awards-approved				
	technical interview documents				
	<ul> <li>recorded using the relevant technology such as Microsoft</li> </ul>				
	Teams or an audio recording device				
What topics	The interview focuses on the four themes:				
will I have to	role and responsibilities				
cover?	2. electrical danger and control				
	3. power engineering electrical plant and apparatus				
	4. ONE of the following:				
	a. conductor types and tensions (distribution option)				
	b. conductor types and tensions (transmission option)				
	For further details refer to 'Knowledge, Skills and Behaviours				
	(KSBs) coverage in the PIOL Specification on pages 38 – 74.				



	A link to the PIOL Specification is available on page 10.				
How many	<ul> <li>A minimum of 4 questions</li> </ul>				
questions will I	<ul> <li>Follow-up questions in order to seek clarification</li> </ul>				
be asked?					
Provisional	The employer assessor will award a provisional grade. You must				
Grading	pass <b>ALL</b> the pass criteria in order to achieve a pass.				
Overall grading					
for this	Fail or Pass.				
component					
Can I finish the	You may choose to end the trade test technical interview early.				
trade test	You must be confident you have demonstrated competence				
technical	against the assessment requirements for the trade test technical				
interview	interview. The employer assessor will ensure you are fully aware				
early?	of all assessment requirements and understand the implications				
	of ending the trade test technical interview early. The employer				
	assessor may suggest the trade test technical interview				
	continues. The employer assessor will document your request to				
	end the assessment early.				
Can the	The employer assessor cannot suggest or choose to end the				
employer	trade test technical interview early, unless in an emergency.				
assessor end					
the trade test					
technical					
interview					
early?					

Practice Component 4: Trade test technical interview



You should have an opportunity to have a practice technical interview which mirrors the real assessment. The practice technical interview would be set up by your employer or training provider using the structure in the table above.

## Overall grading

All assessment components contribute equally to your overall EPA grade.



Grades from individual assessment components will be combined in the following way to determine your overall EPA grade as a whole.

Multiple- choice test	Interview based on an EPA portfolio	Trade test practical assessment with questions	Trade test technical interview	Overall grading
Fail in any component				Fail
Pass	Pass	Pass	Pass	Pass
Pass	Distinction	Pass	Pass	Pass
Pass	Pass	Distinction	Pass	Pass
Pass	Distinction	Distinction	Pass	Distinction

#### Section 4: Resits and retakes

If you fail one or more EPA component you can re-sit or a re-take the failed component at your employer's discretion. Your employer needs to agree that a re-sit or re-take is appropriate. A re-sit does not need further learning, but a re-take does. You should have a supportive action plan to prepare for your re-sit or re-take.

Your employer and Energy & Environment Awards will agree the timescale for your re-sit or re-take. A re-sit is typically taken within 4 months of the EPA outcome notification. Failed EPA component(s) must be re-sat or re-taken within the 6 months of the fail notification, otherwise the entire EPA will need to be re-sat or re-taken in full, unless in the opinion of Energy & Environment Awards exceptional circumstances apply outside the control of you or your employer.

Where any assessment method has to be re-sat or re-taken, you will be awarded a maximum EPA grade of pass, unless Energy & Environment Awards determines there are exceptional circumstances which required a re-sit or re-take.

Re-sits and re-takes will not be offered to you if you wish to move from pass to a higher grade.

Energy & Environment Awards resit and re-take policy can be found at: <a href="https://energyenvironmentaward.co.uk/policies-and-fees/">https://energyenvironmentaward.co.uk/policies-and-fees/</a>



Section 5: Appendices



## Appendix A: Glossary

**Amplification** – provides more detail on how individual knowledge, skills or behaviours statements should be interpreted. Where the KSB statements, themselves are deemed self-explanatory, no amplification is provided. Assessment may include questions on anything identified in the amplification

**Behaviours** –mindsets, attitudes or approaches needed for competence. Whilst these can be innate or instinctive, they can also be learnt. Behaviours tend to be very transferable. They may be more similar across occupations than knowledge and skills. For example, team worker, adaptable and professional

**Elements** – are the knowledge, skills and behaviours and what is needed to competently undertake the duties required for an occupational standard

Employer Assessor – provided by the employer and approved by Energy & Environment Awards. Will assess the knowledge, skills and behaviours (KSBs) that you have been taught throughout the apprenticeship. Their role as an Employer Assessor would involve assessing component 3 (trade test practical assessment with questions) and component 4 (trade test technical interview)

**Guidance** – is only provided where it is required to support interpretation of the KSB statements

**Gateway** – the stage of the apprenticeship where the apprentice, employer and trainer determine whether the apprentice is ready to undertake the End-Point Assessment

Independent Assessor – Will holistically assess the knowledge, skills and behaviours (KSBs) that you have been taught throughout the apprenticeship. Their role as an Independent Assessor would involve assessing components 2 (interview based on an EPA portfolio)

**Knowledge** – the information, technical detail, and 'know-how' that someone needs to have and understand to successfully carry out the duties. Some knowledge will be occupation-specific, whereas some may be more generic



**Options** / **Pathways** – a specialist route within an occupational standard that builds on the occupational competence for a new entrant to the occupation

**Skills** – the practical application of knowledge needed to successfully undertake the duties. They are learnt through on and/or off-the-job training or experience

**Standard** – An occupational standard is a description of an occupation. It contains occupational profile, and describes KSBs needed for someone to be competent in the occupation's duties. The occupational standards are developed by employers for occupations that meet the Institute for Apprenticeships & Technical Education current criteria. For further details refer to:

https://skillsengland.education.gov.uk/apprenticeship-standards/st1330-v1-0

**Topic** - is a collection of elements grouped into a theme e.g., Health and Safety



# Appendix B: EPA Portfolio Evidence Log Distribution

Employer I	Name			
Full Name	Full Name of Apprentice			
	ubmitted in this EPA			
portfolio is	my own			
Date				
Cupamiaa	·/Nantau Nana			
-	/Mentor Name			
	ubmitted in this EPA the apprentice's own			
Date				
Task 1: Co	mmunication and worki	ng with others		
Supporting	evidence provided (ple	ease check box)		
Date of activity	Description of evidence	ce	Reference	
Please add	additional lines if need	ed		
Task 2: Su	stainability			
Supporting evidence provided (please check box)				
Date of activity	Description of evidence	ce	Reference	
Please add	additional lines if need	ed		



Task 3: CPD and improvement activities			
Supporting evidence provided (please check box)			
Date of activity	Description of evidence	Reference	

Please add additional lines if needed

Task 4: Wo service	orking on the highway, location and avoidance of utilities	and customer
Supporting	evidence provided (please check box)	
Date of activity	Description of evidence	Reference

Please add additional lines if needed



## Appendix B: EPA Portfolio Evidence Log

## Transmission

Employer I	Employer Name				
Full Name	of Apprentice				
The work s	ubmitted in this EPA my own				
Date					
Supervisor	/Mentor Name				
	ubmitted in this EPA the apprentice's own				
Date					
Task 1: Co	mmunication and worki	ng with others			
Supporting	evidence provided (ple	ease check box)			
Date of activity	Description of evidence	ce	Reference		
Please add	additional lines if need	ed			
Task 2: Sustainability					
Supporting	Supporting evidence provided (please check box)				
Date of activity	Description of evidence	ce	Reference		
Please add	additional lines if need	ed			



Task 3: CPD and improvement activities			
Supporting evidence provided (please check box)			
Date of activity	Description of evidence	Reference	

Please add additional lines if needed

Task 4: Locating and avoiding of utilities			
Supporting			
Date of activity	Description of evidence	Reference	

Please add additional lines if needed



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