

Skills for a greener world

# **EUIAS Level 4 End-point Assessment Apprentice Guide for**

**Electrical Power Networks Engineer** 

(Asset Management Engineer; Design Engineer and Planning Engineer)

QAN 603/7295/3













# EUIAS Level 4 End-point Assessment Apprentice Guide for

# Electrical Power Networks Engineer QAN 603/7295/3

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# Updates to this Guide

Since the first publication of the EUIAS Electrical Power Networks Engineer Apprentice Guide, the following updates have been made.

Version	Date first published	Section updated	Page(s)
V2.0	July 2023	Rebranded and new template	All
V1.0	March 2022	First published	All





#### At A Glance Component 1: Knowledge Test

Date(s):	
Time:	
Location:	
Examination Conditions:	Controlled by an invigilator
Additional Requirements:	
Assessed and marked by:	EUIAS

#### At A Glance Component 2: Practical Observation

Date(s):	
Time:	
Location:	
Examination Conditions:	With an EUIAS assessor in your place of work or training environment
Additional Requirements:	
Assessed and marked by:	Independent assessor/EUIAS

## At A Glance Component 3: Technical Interview based on a work log of evidence

Date(s):	
Time:	
Location:	
Examination Conditions:	With an EUIAS assessor accompanied by an employer technical expert from your place of work or training environment
Additional Requirements:	
Assessed and marked by:	Independent assessor/EUIAS



## Introduction



EUIAS 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 Electrical Power Networks Engineer (EPNE) 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 Electrical Power Networks Engineer standard, which was written by employers. It contains the electrical power networks engineer'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://www.instituteforapprenticeships.org/apprenticeship-standards/electricalpower-networks-engineer-v1-0

## 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.

EUIAS designed the end-point assessment (EPA) to meet the requirements of the Assessment Plan. The Assessment Plan can be accessed via the link below: <u>https://www.instituteforapprenticeships.org/media/1457/electrical-power-network-engineer-assessment-plan.pdf</u>



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

The end-point assessment is the assessments you take at the end of your apprenticeship. Your apprenticeship will typically take 30 - 36 months. You will typically spend 36 months on-programme working towards your standard. 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 will be taken in the last 6 months. The end-point assessments consist of 3 components:

- Knowledge Test
- Practical Observation
- Technical Interview based on your work log of evidence

Each component has a provisional grade and each grade is carried forward to award a final grade. You must pass all 3 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 EUIAS. The document confirms that you have met the following Gateway requirements:

- achieved a minimum level 2 in English and maths
- satisfactory completion of the formal training plan agreed
- compiled a work log of evidence with a mapping document, which the technical interview will be based on

Your training provider will send copies of these documents to EUIAS.



## What is the EPA Specification?

EUIAS Level 4 End-point Assessment Specification for

Electrical Power Networks Engineer (Asset Management; Design and Planning Engineers) QAN 603/7295/3 The end-point assessment specification provides details of the assessment methods used in your EPA, which:

- KSBs that are covered by each assessment
- •KSBs amplification and guidance

The Specifications for your job role (Asset Management; Design and Planning Engineers) can be accessed via the link below:

https://www.euias.co.uk/wp-content/uploads/2023/05/EPNE-L4-EPA-Specification-Asset-Management-Design-Planning-Engineers-V3.0-1.pdf



# Section 2: Apprentice EPA Journey

Let us Begin Your EPA Journey.

Find a quiet place and read on....

Electrical Power Network's Engineer is a core and options

apprenticeship standard. You must be trained and assessed against the core and one of the following specialisms:

- Asset Management
- Design
- Planning

Your EPA journey consists of 3 elements:

- A training programme with on the job, off the job elements, typically 30 36 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, which **must** be taken in this order:

- 1. Knowledge Test
- 2. Practical Observation
- 3. Technical Interview based on your work log of evidence

It is important for you to keep a record of when your 3 components are scheduled. We suggest you use the 'At a Glance' tables on page 5.





You must pass all 3 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 EUIAS 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:

Training	Gateway and scheduling 3 components	Knowledge test	Practical Observation	Technical Interview based on work log	Quality assurance and final grading (By EUIAS)	Apprenticeship Certificate (Claimed by EUIAS)
Typically, 36 months	You have: Attended a Gateway meeting with your employer/provider.	60 Minutes. Multiple-choice 40 questions.	No longer than 1 day for example: normal duration of 5 - 6 hours depending on the activity(s) a maximum of 6 hour	The technical interview must last 2.75 hours and a maximum of 3 hours.	Awarded Final Grading: Distinction, Pass or Fail.	ESFA will send your Certificate to your training provider or employer
	Achieved a minimum level 2 in English and maths. Satisfactory completion of your formal training plan agreed. Compiled a work log of evidence, which your technical interview will be based on.	conditions supervised by an invigilator. Face to face. Open book.	including time for questioning. Under examination conditions. Face to face or remote as agreed. Independent assessor. For further details *see	Under examination conditions. Face to face or remote as agreed and recorded using relevant technology. Independent assessors. For further details *see below.		Contact your training provider or employer if you do not receive your certificate.

\*For further details refer to Section 3 in this Apprentice Guide or Section 2 of the Specification



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# Section 3: End-point Assessment Components

Now let us continue your journey through EPA. There are 3 components that you must pass to be awarded a certificate.

## Component 1: Knowledge Test

#### Overview

The knowledge test is a multiple-choice test and is 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 knowledge test (multiplechoice test) will be carried out:

Who will start and finish your knowledge assessment?	You will sit your knowledge test (multiple-choice test) in the presence of an invigilator.			
How will the question	Here is an example of how the question will appear:			
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 <b>select one answer</b> 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:



		<u> </u>		
	Candidate ID Attempt			
	Last Name			
	First Name			
	Centre Name			
	Centre Number			
	MARKING INSTRUCTIONS	Í		
	© © ● ANSWER COMPLETED CORRECTLY			
	Examples of how NOT to mark your examination sheet. These will not be recorded			
	I C O O DO NOT partially shade the answer circle.			
	O O O O NOT use ticks or crosses.			
	© © © DO NOT use circles.			
	O O O NOT shade over more than one circle.			
	30000 10000 200000 300000			
	Always have a go even if you are not sure that it is th	1e		
	correct answer.	correct answer.		
Can I take any	The test is open book which means that you can refer to			
resources into	reference books, training materials, company policies and			
the exam room?	procedures, work logs or any other materials. You will be			
	provided with stationery on the day. You can take into the exam			
	provided with stationery on the day. You can take into the exam			
	a scientific non-programmable calculator.			
Can I have	No access to the internet is allowed and this means you must			
access to the	not take your SMART watch into the exam room.			
internet?				
How will the	Locations: Your knowledge test (multiple-choice test) will take			
knowledge	place at your employer's or training provider's premises or a			
assessment be	suitable venue			
organized for	Volu will take the test in a guist space and in the present	~~		
	<ul> <li>You will take the test in a quiet space and in the presence of an invigilator.</li> </ul>	е		
me?	of an invigilator			
	Your test will be scheduled by your employer or training			
	provider with the EUIAS			
	<ul> <li>If you fail the knowledge test (multiple-choice test), you</li> </ul>			
	can re-sit or re-take the failed test at your employer's			



	discretion. There are no limits to the number of re-sits or re-takes you can take but it is important to revise and ensure that you are confident with the knowledge you are being tested on		
What criteria will I have to learn? AND	The knowledge test (multiple-choice test) questions are knowledge based and sample the 6 core knowledge criteria. Below is a list of the knowledge criteria, assessed in the knowledge assessment along with the range of questions that will be allocated to a knowledge assessment paper:		
How many questions will be asked on each criteria?	Number of Questions	Knowledge	
	7 - 9	<b>K1:</b> Electrical power principles electrical power principles: alternating current and direct current theories; dynamic and static engineering systems; application of electrical and electronic circuit theory; the use of complex wave forms	
	7 - 9	<b>K2:</b> Three-phase systems with consideration being given to harmonics and their effects and the methods of power distribution	
	7 - 9	<b>K3:</b> Electricity network design, capabilities, complexities, operations and topologies; operation and limitations of plant and equipment	
	7 - 9	<b>K4:</b> The operation of the electricity network in normal and fault conditions	
	8 - 10	<b>K5:</b> Safe systems of work and risk management; the application of Electricity Supply Standards, Regulations including environmental requirements. These are Health and Safety at Work Act 1974, Electricity at Work Regulations 1989, Management of Health & Safety at Work Regulations 2003, Control of Substances Hazardous to Health (COSHH)	
		Regulations 2002, The Electricity Safety, Quality and Continuity Regulations 2002, The Environmental Protection Act 1990	

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	4 - 6 <b>K10:</b> The key interfaces of the electricity network
	<b>Remember</b> the questions have been written to reflect the electrical power network's engineer's role as a whole and are not focussed on specific plant, machinery, or employer-specific processes. For amplification and guidance refer to Section 2 of the EPNE Specification.
What should I	You should be prepared to:
do to prepare for the	<ul> <li>revise the knowledge criteria listed above</li> </ul>
knowledge	<ul> <li>ask your employer or training provider for additional</li> </ul>
assessment?	questions that they have prepared to support you
	<ul> <li>attend the knowledge test which will last 60 minutes</li> </ul>
	While on-programme, the employer or training provider must ensure you are:
	<ul> <li>familiar with all areas assessed by the knowledge 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 3: Knowledge test

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

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## **Component 2: Practical Observation**

#### Overview

You must successfully complete your knowledge test before you move onto completing your practical observation.

A practical observation involves an independent assessor, appointed by EUIAS observing and questioning you undertaking a practical activity in a real working environment. You must be allowed to demonstrate the application for the relevant core and specific job role knowledge, skills and behaviours (KSBs). The practical task(s) must be capable of being completed by a competent electrical power network's engineer in the role of:

- Asset Management Engineer you will be observed developing aspects of network reinforcement plans that include making plant and equipment proposals as well as including the plan information in regulatory returns
- **Design Engineer** you will be observed undertaking a detailed electrical network design, demonstrating load calculations, production of network diagrams and the benefits of their proposed design
- Planning Engineer you will be observed preparing and communicating work plans that take into account all resource requirements and their associated skills, other network considerations and demonstrating how they achieve outcome targets

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## Step-by-Step Guide

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

Structure of your practical observation	Typically no longer than one day, and the actual time allowed will be based on the comparable time that an industry competent worker would take to achieve successful task(s) completion. For example:				
	<ul> <li>normal duration of 5 – 6 hours may be allocated depending on the activity(s) a maximum of 6 hours including time for questioning and must involve you working on your role specific task</li> </ul>				
	Refer to pages 16-23 in the EPNE Specification (Asset Management Engineer; Design Engineer and Planning Engineer) for the full list of KSBs to be covered in your practical observation.				
	Your practical observation will be managed and marked out of 100 by the independent assessor.				
	There may be breaks during your practical observation to allow you to move from one location to another and for meal/comfort breaks. Where breaks occur, the clock will be paused. The assessment time is not reduced.				
Where will the	Your practical observation must be conducted:				
assessment take place?	<ul> <li>on actual plant and equipment in a real working environment</li> </ul>				
	<ul> <li>in your normal place of work in a suitable area provided you can work unhindered</li> </ul>				
What knowledge	Core knowledge				
skills and behaviours	<b>K6</b> Company requirements with regard to project management tools, techniques and processes				
(KSBs) do I have to demonstrate	K9 Company business planning and resource control measures				



during the	Core Skills:
observation?	<b>S1</b> Comply with company and industry health, safety and environmental standards, regulations, company operating procedures and working practices (relating to the health, safety and environmental practices used within the sector)
	<b>S2</b> Ensure that all safety considerations are incorporated and evident in all working practices (relating to the preparation and monitoring of safety practices during the observation)
	<b>S4</b> Produce timely communications providing information to stakeholders both in writing and verbally in relation to their role activities
	<b>S8</b> Use company IT systems to provide accurate and reliable data to support business decisions (relating to the use of IT systems and equipment during the course of their job role)
	<b>S11</b> Uses company risk tools and techniques to evaluate and predict the reliability of engineering systems and equipment (relating to the identification and control of risks)
	Asset Management Engineer Role Specialist Skills
	<b>AM2</b> Plan, develop and produce long term network reinforcement plans taking into account emerging technologies and projected future load requirements
	<b>AM3</b> Understand and interpret Regulatory requirements and business plans and contribute to the production of regulatory technical returns
	<b>AM4</b> Assimilate complex external information to inform company decisions
	<b>AM5</b> Evaluate plant and equipment proposals and recommend company approaches
	<b>AM6</b> Instigate, as appropriate, investigations into asset, systems or process failures as well as undertaking network performance analysis



#### **Design Engineer Role Specialist Skills**

**DE1** Taking the long term network plan into consideration, translate company strategies into specific electrical designs

**DE2** Make proposals regarding appropriate plant and equipment to be used and the benefits of the proposals

**DE5** Demonstrate the application of appropriate methods to identify correct load calculations and produce network diagrams

#### Planning Engineer Role Specialist Skills

**PE2** Prioritise all works to be delivered taking into account capital delivery and contractor resources ensuring that all outcome targets are considered

**PE5** Ensure all planning decisions are documented in the relevant systems and are communicated with reasoning to all relevant stakeholders

#### Core Behaviours:

**B1 Health, Safety and Environment** - follows health, safety and environmental policies and procedures and is prepared to challenge unsafe behaviour using appropriate techniques to ensure the protection of people and property when working alone and/or with teams. Demonstrates high concentration and the desire to reduce risks through regular monitoring and checking information

**B3 Interpersonal Skills** - works well with people from different disciplines, backgrounds and expertise. Takes others' needs and concerns into account and supports them to accomplish an activity safely and on time.

**B5 Risk Awareness** - has the embedded desire to reduce risks through systematic monitoring and checking of information identifying mitigation actions on an on-going basis



For amplification and guidance refer to the EPNE Specification link on page 9.



What tasks will I have to cover?	<ul> <li>The practical task must allow you to undertake the activities required for a practical observation. For further details refer to 'Knowledge, Skills and Behaviours (KSBs) Coverage' in the role specific specification, refer to link on page 9.</li> </ul>			
What	Equipment and resources needed for the observation must be:			
resources can I				
use?	<ul> <li>provided by your employer or training provider</li> </ul>			
	a suitable premises			
	<ul> <li>the plant, machinery, 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 for you to			
	use in hard copy or electronically.			
How many	The independent assessor:			
questions will I	<ul> <li>will ask open questions to assess the related underpinning</li> </ul>			
be asked?	knowledge. There are no stipulated number of questions			
	that will be asked			
	<ul> <li>may ask questions to follow in order to seek clarification from you</li> </ul>			
Who will	An independent assessor, appointed by EUIAS.			
assess me?				
Provisional	The independent assessor will award a provisional grade. You			
Grading	must pass <b>ALL</b> the pass criteria in order to achieve a pass.			
Overall grading	Fail, Pass or Distinction.			
for this				
component				

## Practice Component 2: Practical Observation

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



## Component 3: Technical Interview based on Work Log of Evidence

#### Overview

You must successfully complete your knowledge test and your practical observation before completing your technical interview.

The technical interview is based on your work log of evidence. It is to allow you to demonstrate how you have met the KSBs in order to carry out your occupational role as an electrical power networks engineer effectively and safely. The technical interview allows for testing of responses where there are a range of potential answers that cannot be tested through the knowledge test.

## Step-by-Step Guide

The table below provides a step-by-step guide on how the technical interview based on your work log of evidence will be carried out:

Who will	1 independent assessors, appointed by EUIAS will conduct the			
assess me?	technical interview.			
	1 representative from your employer or training provider is			
	allowed to be present in the room whilst the technical interview is			
	being conducted. The employer assessor:			
	<ul> <li>must not amplify or clarify points made by you</li> </ul>			
	<ul> <li>role is to provide context for the independent assessor with</li> </ul>			
	clarifications around specific company policies and			
	procedures			
	<ul> <li>following the interview, will be asked by the independent</li> </ul>			
	assessor to join in a discussion about the interview and the			
	independent assessor will assign a provisional mark			
How will the	Locations: Your technical interview will take place at your			
technical	employer's premises or a suitable venue.			
interview be				
organised?				

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	<b>Time:</b> Your technical interview must last 2.75 hours and a maximum of 3 hours.
	Your Technical 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 EUIAS interview documents</li> </ul>
	<ul> <li>recorded using the relevant technology such as Microsoft Teams or an audio recording device</li> </ul>
What topics	For further details refer to 'Knowledge, Skills and Behaviours
will I have to	Design Engineer and Planning Engineer) Specification on pages
	28 – 38. A link to the EPNE Specification is available on page
	9.
How many	The assessor will ask a set of questions to explore your
questions will I	activities in each scenario
	• Standardised open questions will be asked based on the
	contents of the evidence in your work log
	• Set questions which maybe contextualised to the contents of your work log
	<ul> <li>Follow-up questions in order to seek clarification</li> </ul>
Provisional	The independent assessor will award a provisional grade. You
Grading	must pass <b>ALL</b> the pass criteria in order to achieve a pass.
Overall grading	Fail, Pass or Distinction.
for this	
component	



## Work Log of Evidence Requirements

The requirements are as follows:

## Work Log Mapping Document

You must map your work log of evidence to the KSBs covered by the technical interview. You must include a mapping document at the front of your work log that clearly references the location of the evidence in your work log.

For further guidance on how to map refer to:

- Section below 'How do I organise my work log of evidence and map it to the mapping document?'
- EPNE Role Specific Specification Section 5: Guidance on work log of evidence and apprentice mapping
- Apprentice Guide: Appendix B for the work log mapping document

## How do I organise my work log of evidence and map my evidence?

## Step-by-Step Guide

You must include a work log mapping document and place it at the front of your work log, see table above for guidance and where to locate the work log mapping document.

Your work log is not assessed. It serves two purposes:

- The independent assessor reviews your work log before the technical interview to help focus and contextualise their questions
- You should carefully prepare, index and map your work log as this will further support you during your technical interview. Your organised work log will allow you with ease to refer to examples and discuss the evidence with the independent assessor

## What should I include in my work log?

## **Quality vs quantity**

You should be supported in selecting and mapping evidence for your work log by your employer or training provider.



We would advise you to choose the best pieces of evidence and map them to each KSB which will be covered during your technical interview. To be confident of meeting the KSB, you should aim to have two/three pieces of evidence mapped to each KSB.

The work log evidence **must contain**:

- a mapping document that is mapped against the relevant KSBs that will be assessed by the technical interview. A template has been produced which you can use to collect and map your evidence. A copy of the template is included, see Appendix B 'Work Log Mapping Document'
- at least one piece of quality evidence relating to each KSB. This piece of quality evidence must demonstrate the KSBs as outlined in Section 2 of this Specification which will be assessed by the technical interview based on the work log
- evidence that covers all KSBs required, and this would normally come from evidence relating to **at least 5 holistic jobs**
- written accounts of activities that have been completed and referenced against the knowledge, skills and behaviours supported by appropriate photographic evidence and work products, for example work instructions, safety documentation, company policies and procedures as appropriate to the activities
- **progress review documentation** reviews which should be completed and recorded to determine progression towards competence across the entire occupational Standard

Examples of acceptable evidence:

- quality pieces selected
- demonstrations of work carried out over a period of time and include evidence of work carried out within the last three months of the on-programme period
- a minimum of 2 and no more than 3 activities accrued out by you that demonstrates the higher order knowledge, skills and behaviours
- where practicable this should include and clearly labelled:
  - o photographs
  - o images
  - o diagrams

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- o job descriptions and witness evidence/ testimony
- situations that have been difficult and challenging, and how these have been overcome e.g. equipment breakdown which has results in a change in working practice while still adhering to company procedures
- any employer contributions must focus on direct observation of evidence (e.g. review/witness statements) of competence rather than opinions

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

You **must not** include in your work log any methods of self-assessment.

Evidence must be:

- produced by you (authentic)
- relevant to the standard (K, S or B) that it is mapped to
- produced during the time you were carrying out your on-programme training

## What can I do to prepare for the technical interview based on the work log?

You should:

- be familiar with the structure of your work log
- know the KSBs covered by the technical interview
- know where you have mapped your KSBs by referring to your work log mapping document
- ensure there is quality evidence to cover every KSB in the technical interview
- practise mapping evidence and completing the evidence mapping grid
- 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 work log by:

- clarifying responsibility for supporting you in selecting and mapping evidence for your work log, including the role of employer coaches/mentors where applicable
- advising you on which pieces of evidence you should select to ensure that when it is looked at as a whole, your evidence provides coverage of all the required elements of the standard (KSBs) assessed in the technical interview



- supporting the mapping of your evidence and production of your mapping document
- authenticating evidence you provide is valid
- signing off your work log
- submitting your work log to EUIAS as part of Gateway

## Practice Component 2: Technical Interview based on Work Log of Evidence

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



# Overall grading

Your apprenticeship will be graded distinction, pass or fail. The final grade will be determined by collective performance in the three assessment components.

The knowledge test, practical observation and technical interview are all marked separately and awarded a fail, pass or distinction.

The knowledge test is based on the percentage score achieved. The grade and mark for the practical observation and technical interview is based on the number and level of criteria achieved.

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

Component	Distinction	Pass	Fail
Knowledge Test	90% or greater	80 – 89%	79% or less
Practical Observation	85% or greater	60 – 84%	59% or less
Technical Interview	85% or greater	60 - 84%	59% or less

The scoring criteria that will be applied for each assessment criteria along with additional details can be found in Section 3 of this Specification.

The overall grading for the EPNE standard is based on the grades in the individual components as follows:

- Distinction If a Distinction is awarded in all 3 components
- Pass If a combination of a Pass or Distinction is awarded across the 3 components
- Fail If a Fail is awarded for at least one of the component



# Section 4: Resits and retakes

If you fail one or more EPA components 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 EUIAS will agree the timescale for your re-sit or re-take. Failed EPA component(s) must be re-sat or re-taken within the 6 months month end-point assessment period, otherwise the EPA will need to be re-sat or re-taken in full.

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

You will get a maximum EPA grade of pass for a re-sit or re-take.

The EUIAS resit and re-take policy can be found at: https://www.euias.co.uk/end-point-assessment/policies-and-fees/



# Section 5: Appendices

Appendix A: Glossary

Appendix B: Work log Mapping Document

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# 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

**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 learnt throughout the apprenticeship. Their role as an Independent Assessor would involve assessing components 2 (practical observation) and 3 (technical interview based on your work log of evidence)

**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

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**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://www.instituteforapprenticeships.org/apprenticeship-standards/electricalpower-networks-engineer-v1-0

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



# Appendix B: Work log Mapping Document

## Introduction

Throughout the on-programme part of the apprenticeship, you will need to compile a work log of evidence to support the requirements of the technical interview. The evidence within the work log will need to be mapped by you to the KSB requirements using the mapping document below.

The independent assessor will use the mapping document to review the evidence in your work log in preparation for the technical interview. The independent assessor will not assess your work log.

The work log mapping document below consists of the core requirements.

## Your next steps

- 1. Complete all the details on the first page and include employer details of where relevant competencies from your experience at work was gained
- 2 Ensure each piece of evidence is signed off by your tutor/supervisor/mentor and lead provider (employer or training provider). You can use a number of different types of evidence to demonstrate your competence as described in Section 5 of the Specification – 'What to include in the work log?'. For further guidance, you must seek advice from your tutor/supervisor/mentor and lead provider
- 3 Map evidence to the criteria in the following pages using a referencing system indicating where the evidence for the criteria is located in your work log e.g., work based evidence Job 1 (J1) page 5 paragraph 2. This will allow the independent assessor to locate the section or specific piece of evidence being discussed with you during the technical interview
- 4 Place the work log mapping document at the front of the work log of evidence
- 5 Your lead provider must make arrangements for EUIAS to have access to your work log including the work log mapping document at Gateway



## Work Log Mapping Document

Mapping Sign off on Work Log Completion:

Place this work log mapping document at the front of your work log of evidence.

Apprentice Full Name (Print)	Apprentice Signature	Training Provider (Company)	Training Provider Signatory	Date of Sign Off

## Core Knowledge

Ref.	Apprenticeship Standard Criteria	WORK LOG EVIDENCE REFERENCE (Apprentice Input)			
		1	2	3	
K7	Company engineering policies appropriate to their role				
K8	Engineering problems including how to identify the problem, gather and analyse all relevant information, provide and implement a workable solution and monitoring its effectiveness				
К9	Company business planning and resource control measures				
Asse	essor Comments:		<u>.</u>	<u>.</u>	



#### **Core Skills**

Ref.	Apprenticeship Standard Criteria		WORK LOG EVIDENCE REFERENCE (Apprentice Input)			
		1	2	3		
S3	Apply asset management, design, planning, control, electrical project, or operational engineering principles as appropriate to their role to maintain and improve the integrity, safety and longevity of the transmission/distribution electrical network					
S5	Read, understand and interpret technical information relative to their role, identified in company strategies and policies and work in compliance with technical specifications					
S6	Produce clear and precise reports in relation to their activities to line management, other business departments and/or to external stakeholders					
S7	Develop and agree project plans to undertake their activities. These plans will contain clear objectives, budgets, desired outcomes and timescales. Also included will be implementation criteria, monitoring process controls and evaluation records					
S9	Demonstrate that their work activities support the business to achieve its regulatory incentive mechanisms					
S10	Provide information to support business planning processes in relation to their role activities					
Asse	Assessor Comments:					



#### **Core Behaviours**

Ref.	f. Apprenticeship Standard Criteria		WORK LOG EVIDENCE REFERENCE (Apprentice Input)			
		1	2	3		
В2	Stakeholder management					
B4	Analysing and solving problems					
B6	Planning and organising					
Assessor Comments:						



## Pathway: Asset Management Engineer Role Specific Skills

Ref.	Apprenticeship Standard Criteria		WORK LOG EVIDENCE REFERENCE (Apprentice Input)			
		1	2	3		
AM1	Support the development of innovative policy solutions to best serve the needs of customers and stakeholders					
AM7	Support the identification of new and existing innovation projects					
AM8	Identify the implications of the next generation of low carbon energy and how it influences the way the network is operated					
Assessor Comments:						



## Pathway Design Engineer Specific Skills

Ref.	Apprenticeship Standard Criteria	WORK LOG EVIDENCE REFERENCE (Apprentice Input)		DG CE nput) 3
DE3	Undertake all aspects of design from outlines to detailed plans. This involves approvals, wayleaves, consents, appropriate regulations and costing information			
DE4	Take into account the implications of safety and environmental requirements, statutory and industry standards, technical system requirements and commercial constraints on design plans			
DE6	Ensure that proposed designs meet commercial, investment requirements and take into account innovation developments			
Asse	ssor Comments:			



## Pathway: Planning Engineer Role Specific Skills

Ref.	Apprenticeship Standard Criteria		WORK LOG EVIDENCE REFERENCE (Apprentice Input)			
		1	2	3		
PE1	Build and be accountable for a rolling and dynamic plan, including managing conflicts and changes, for all operational and capital works					
PE3	Ensure area plans are built optimally, utilising resource skill sets appropriately and plan the outages, negotiating and confirming them by utilising the switching matrix					
PE4	Ensure all risk assessments are initiated in a timely manner, that any constraints are assessed and managed and any mitigating actions are determined					
PE6	Ensure assets are compliant with statutory requirements, company policy obligations and optimal/limit dates and assess asset condition data against maintenance policy risk & criticality criteria					
PE7	Be accountable for both resource and outage planning ownership and authority of work to be included or removed from the plan					
Asse	Assessor Comments:					



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