

Skills for a greener world

EEA Level 3 End-point Assessment for Power Industry Overhead Linesperson (Distribution; Transmission)

# **Supporting Documents**

QAN 610/6031/8 ST1330 V1.0 V1.1 V1.2



# Supporting Documents for

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

(Distribution; Transmission)

QAN 610/6031/8

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#### Updates to the supporting documents

Since the first publication of Energy & Environment Awards Power Industry Overhead Linesperson (PIOL) Supporting Documents (Distribution; Transmission), the following updates have been made.

Version	Date first published	Section updated	Page(s)
v2.0	August 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	28, 30, 54,
v1.0	October 2024	First published	All



#### 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 (as part of KSBs)** – specific mindsets, attitudes or approaches identified as part of the apprenticeship standard that must be evidenced during endpoint assessment

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

**Gateway** - the stage of the apprenticeship where the apprentice, employer and training provider determine whether the apprentice is ready to undertake end-point assessment

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

**Knowledge (as part of KSBs)** – specific information, technical detail, and 'knowhow' identified as part of the apprenticeship standard that must be evidenced during end-point assessment

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

**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

**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. Occupational standards are developed by employers for occupations that meet the Institute for Apprenticeships and Technical Education current occupation criteria

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



#### Appendix B: Gateway Eligibility Form

(Standard Version: ST1330 version 1.1; Assessment Plan Version: 1.1)

Apprentice's name:	Apprentice's job title:	
Apprentice's ULN:		
Name of Employer:	Name of Training provider:	
Employer representatives present:	Training provider representatives	present:
Apprenticeship start date:	Apprenticeship on-programme e	nd date:
Was the apprentice aged 19 or over at the start of the programme?	Y/N	
Employer Decision for apprentices aged 19 or over only at the start of the programme:	We require the apprentice to attempt English and maths before taking the end-point assessment	Y/N
Gateway meeting date:		•
Has the apprentice taken any part of the end-point assessment for this apprenticeship standard with any other End Point Assessment Organisation?	Y/N	
If 'Yes' please give details:		



#### Apprentice's details

Eligibility requirements:

Where applicable, the apprentice must confirm their achievement of the following

Note: For apprentices aged 19+, if maths and/or English have been attempted but not achieved evidence of the attempt should be submitted.

Eligibility requirement	Achieved by the apprentice? Y/N	Evidence (Scans of certificates MUST be included)
Achieved an English qualification in line with the apprenticeship funding rules		
Achieved a mathematics qualification in line with the apprenticeship funding rules		
Passed Emergency First Aid 1 day course		
Compiled and submitted an EPA portfolio that meets the specification requirements, for the interview based		



#### Gateway Eligibility Declaration

- 1. The apprentice, the employer and the training provider must sign this form to confirm that they understand and agree to the following:
- 2. The apprentice has completed the required on-programme elements of the apprenticeship and is ready for end-point assessment with Energy & Environment Awards.
- 3. Energy & Environment Awards has been informed about any reasonable adjustment and/or special considerations requests.
- 4. The apprentice will only submit their own work as part of end-point assessment.
- 5. All parties agree that end-point assessment evidence may be recorded and stored by Energy & Environment Awards for quality assurance purposes.
- 6. The apprentice has been on-programme for a minimum duration of 365 days.
- 7. The apprentice has achieved English and mathematics qualifications in line with the apprenticeship funding rules.
- 8. The apprentice has passed an Emergency First Aid 1 day course.
- 9. The apprentice has compiled and submitted a competent portfolio of evidence, on which the technical interview will be based.
- 10. The apprentice, if successful, gives permission for Energy & Environment Awards to request the apprenticeship. certificate from the ESFA who issue the certificate on behalf of the Secretary of State.
- 11. The apprentice has been directed to Energy & Environment Awards Appeals Policy and Complaints Policy.
- 12. The employer/training provider has given Energy & Environment Awards at least three months' notice of requesting this EPA for this apprentice.
- 13. If the Gateway Eligibility Report is not completed in full, meeting all requirements, and submitted to Energy & Environment Awards, the end-point assessment cannot take place.



Signed on behalf of the employer (print name):	Signature:	Date:
Signed on behalf of the training provider (print name):	Signature:	Date:
Apprentice's name (print):	Signature:	Date:
Energy & Environment Awar	ds use only:	
Energy & Environment Awards Sign off:		
Comments/actions:		



# Appendix C: Trade Test Practical Assessment Requirements and Mapping Form



# Trade Test Practical Assessment with Questions Mapping Summary

#### **Trade Test Practical Assessment Documentation**

The following documentation must be provided to Energy & Environment Awards upon request. This forms part of Energy & Environment Awards' quality assurance process for the PIOL Standard. Please complete the table below by adding a reference(s) to your own paperwork in the document references column.

Documentation Requirements	Please provide the document filename(s)
Employer Assessor training and standardisation materials	
Employer Assessor documentation	
Guidance for Employer Assessors	
Guidance on invigilation of apprentices	
Grading guidance	
Question bank	
Guidance for apprentice and their manager	
Tasks for apprentices	



#### Trade Test Practical Assessment Requirements

Please complete the table below by adding a reference(s) to your own paperwork in the document references column. In the reference column include the page(s) where evidence of the practical assessment requirements for the trade test (TT) can be located within your trade test paperwork.

Trade Test Practical Assessment Requirements	Please provide a document reference of where your documentation references the requirement
Space for the start and end date of TT to be documented The trade test practical assessment with questions may take place in parts but must be completed over no more than 21 working days.	
TT total time documented	
Space to     document an apprentice's request to end the assessment early     indicate whether the employer assessor suggested the assessment continues	
Guidance includes identified simulated environment(s)/locations	
Task to be conducted during practical assessment:	
Core	
a) prepare for power overhead lines     activities	
b) organise and supervise a working party including receiving and clearing a safety document, and briefing a working party	
c) maintain work site health, safety, and environmental compliance	



	Test Practical Assessment rements	Please provide a document reference of where your documentation references the requirement
	including completing a risk assessment	
d)	work at height including fitting and operating a rescue device	
e)	identify apparatus to be worked on	
f)	select, prepare, use and store tools and equipment	
g)	communicate with others	
h)	complete work records	
Distrib	oution	
i)	work on or in proximity to live apparatus (simulated)	
j)	distribution lifting operations	
k)	install distribution support structures and their support mechanisms	
I)	install fixed and temporary earthing and cut outs	
m)	install distribution conductors	
n)	install and dismantle pole mounted plant and apparatus	
0)	conduct electrical testing	
p)	problem solving and fault-finding	
q)	make and break live connections	
Transı	mission	
r)	working in proximity to live apparatus (simulated)	
s)	transmission lifting operations	
t)	install temporary earthing	
u)	install access equipment	



Trade Test Practical Assessment Requirements	Please provide a document reference of where your documentation references the requirement
v) install and test transmission conductors	
w) test compression joints	
KSBs are mapped to the assessment	
Guidance to employer assessor includes statement 'must ask at least 10 questions	
KSBs observed to be documented	
Space for apprentice's responses to be documented	
KSBs demonstrated in answers to questions are indicated	
Preliminary grade achieved recorded	
Guidance for resits to include: <ul> <li>different questions and tasks</li> <li>resit whole TT Practical Assessment in full</li> </ul>	



## Trade Test Practical Assessment Mapping

Please complete the table below by adding a reference(s) to your own paperwork in the document references column to indicate the page(s) where evidence of the KSBs can be located within your trade test practical assessment tasks.

#### Core

Trade Test Theme: Prepare for power overhead lines activities (Core)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K20:</b> Planning, prioritising, organisation, and time management techniques for self and working party.	
<b>S1:</b> Review drawings, instructions, or information to understand the task for example, work instructions, wiring diagrams, design specifications, utility plans, on-line search documents	
<b>S2:</b> Prioritise and plan work with consideration for safety, environmental impact, quality, and cost.	
<b>S3:</b> Identify and organise resources to complete tasks for example, consumables.	
<b>S17:</b> Select, check, and prepare resources.	

Trade Test Theme: Organise and supervise a working party (Core)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>S6:</b> Receive and clear a safety document (permit to work). Brief a working party.	
<b>B3:</b> Take ownership for work and responsibility for its impact on others.	



Trade Test Theme: Organise and supervise a working party (Core)	Please provide a document reference of where the apprentice will be demonstrating the KSB
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.	

Trade Test Theme: Maintain work site health, safety and environmental compliance (Core)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K7:</b> The hazards associated with work on or near electrical power networks.	
<b>K10:</b> Risk assessments and method statements. Emergency procedures. Personal protective equipment (PPE). Manual handling. Fire safety.	
K14: Asset security requirements.	
<b>K18:</b> Recycling and waste management requirements.	
<b>S7:</b> Identify hazards and risks and apply control measures.	
<b>S8:</b> 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.	
<b>S10:</b> Apply measures to leave power work environments in a safe and secure condition for example, anticlimbing guards, danger notices, barriers, lighting.	



Trade Test Theme: Maintain work site health, safety and environmental compliance (Core)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>S12:</b> Segregate waste for reuse, recycling, and waste transfer.	
<b>B1:</b> Prioritise health and safety. For example, risk aware, minimise risks, and proactively work towards preventing accidents.	

Trade Test Theme: Working at height (Core)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K12:</b> 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.	
<b>S14:</b> 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.	
<b>S16:</b> Fit and operate a rescue device at height.	



Trade Test Theme: Identify apparatus (Core)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>S4:</b> Identify apparatus to be worked on.	

Trade Test Theme: Tools and equipment (Core)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>\$13:</b> Select, check, prepare, use or operate, and store personal tools and equipment.	

Trade Test Theme: Communicate with others (Core)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K21:</b> Communication techniques. Industry terminology. Adapting style to audience.	
<b>S20:</b> Communicate with others to give and receive information for example, colleagues, customers, and stakeholders.	
<b>B5:</b> Perform in a professional manner for example, polite, courteous, and respectful to customers and members of the public.	

Trade Test Theme: Complete work records (Core)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K23:</b> Documentation requirements; importance of accurate records.	
S18: Record information.	



#### Distribution

Trade Test Theme: Work on or in proximity to live apparatus (Distribution)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K34:</b> Working on live apparatus and working in proximity to live apparatus protocols. Justification for live working.	
<b>S29:</b> Follow procedures for working on or in proximity to live apparatus.	
<b>\$30:</b> Select and use specialist LV live working PPE.	

Trade Test Theme: Distribution lifting operations (Distribution)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K38:</b> Distribution rigging techniques on conductors and structures capable of carrying up to 132kv.	
<b>S26:</b> Select and operate lifting equipment in overhead lines distribution work for example, cranes and winches.	

Trade Test Theme: Install distribution support structures and their support mechanisms (Distribution)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K35:</b> Distribution support structures and their support mechanisms installation requirements.	
<b>K36:</b> Distribution network excavation methods and requirements.	
<b>S31:</b> Erect overhead lines plant and apparatus for example, poles, support mechanisms, stays.	



Trade Test Theme: Install fixed and temporary earthing (Distribution)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K41:</b> Awareness of domestic and industrial supply earthing. Earthing installation requirements. Earth electrode testing.	
<b>S32:</b> Install circuit main earths (CMEs) and additional (drain) earths.	
<b>S33:</b> Install fixed earthing conductors and carry out earth electrode testing.	

Trade Test Theme: Install distribution conductors (Distribution)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K31:</b> The installation and jointing methods of common conductor types; causes and consequences of common faults.	
K42: Cut out requirements.	
S34: 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.	

Trade Test Theme: Install and dismantle pole mounted plant and apparatus (Distribution)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K39:</b> Pole mounted plant and apparatus: installation, commissioning, and dismantling requirements.	



Trade Test Theme: Install and dismantle pole mounted plant and apparatus (Distribution)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>S36:</b> Install, connect, and commission pole mounted plant and apparatus for example, transformers, pole mounted circuit breakers, and switchgear.	
<b>S37:</b> Dismantle pole mounted plant and apparatus for example, transformers, pole mounted circuit breakers, and switchgear.	

Trade Test Theme: Conduct electrical testing (Distribution)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K45:</b> Low voltage electrical testing requirements and result interpretation.	
S38: Conduct pre-energisation tests.	
<b>S39:</b> Conduct post-energisation (commissioning) checks.	
<b>S41:</b> Interpret testing procedure results and action required.	

	st Theme: Problem solving and ng (Distribution)	Please provide a document reference of where the apprentice will be demonstrating the KSB
common circuits, p solving a non-invas	e symptoms and causes of faults on electrical power plant and apparatus. Problem and fault-finding techniques: sive visual examinations, cocedures. Root cause	
	ognise fault conditions and ne root cause.	



Trade Test Theme: Problem solving and fault-finding (Distribution)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>S44:</b> Replace components or resolve issues for example, replace high resistance joints or damaged conductor.	

Trade Test Theme: Make and break live connections (Distribution)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K44:</b> Low voltage operational switching and testing requirements.	
<b>S40:</b> Perform testing procedures before and after switching operations.	
<b>S42:</b> Operate switchgear and fuses making and breaking live conductor connections.	



#### **Transmission**

Trade Test Theme: Work in proximity to live apparatus (Transmission)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K48:</b> Working in proximity to live apparatus protocols.	
<b>S46:</b> Follow procedures for working on or in proximity to live apparatus.	
<b>S48:</b> Check overhead line plant and apparatus is safe to access, install flag and check wristlets if required.	

Trade Test Theme: Transmission lifting operations (Transmission)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K51:</b> Transmission rigging techniques on conductors and transmission towers.	
<b>S47:</b> Select and operate lifting equipment in overhead lines transmission work for example, cranes and winches.	

Trade Test Theme: Install access equipment (Transmission)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>S49:</b> Install access equipment for example, platforms, ladders, and spacer trollies.	

Trade Test Theme: Install temporary earthing (Transmission)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K52:</b> High voltage temporary earthing requirements.	



Trade Test Theme: Install temporary earthing (Transmission)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K53:</b> Management of circulating currents.	
<b>S50:</b> Install high voltage temporary earthing equipment.	

Trade Test Theme: install and test transmission conductors (Transmission)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>K47:</b> The types and characteristics of common transmission conductors and joints; causes and consequences of common installation faults.	
<b>S51:</b> 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.	

Trade Test Theme: Test compression joints (Transmission)	Please provide a document reference of where the apprentice will be demonstrating the KSB
<b>\$52</b> : Carry out conductor compression jointing	
<b>S54:</b> Test compression joints.	



Employer Declaration	n	
This is to confirm that our Trade Test Practical Assessment documentation maps to the Assessment Requirements as detailed above. A copy of the documentation has been provided for reference.		
Employer Name		
Contact Name:		
Job Title:		
Signature:		
Date:		

Energy & Environme	ent Awards Use Only		
Copy documentation received		Mapping references confirmed	
Start / End date and Total Time of TT documented		KSBs observed to be documented	
Space to document ending assessment early		Apprentice's responses to be documented	
Guidance includes identified simulated environment(s)/ locations		KSBs demonstrated in answers to questions are indicated	
Tasks (a)-(k) covered in employer-set tasks		Preliminary grade achieved recorded	
KSBs are mapped to the assessment		Guidance for resits / different	



Energy & Environment Awards Use Only			
		questions / different tasks	
Guidance includes statement 'must ask at least 10 questions		Published grading descriptors are used	
Energy & Environme review	ent Awards date of		
Comments			



Appendix D: Trade Test Technical Interview Requirements and Mapping Form



# Trade Test Technical Interview Mapping Summary

#### **Technical Interview Documentation**

The following documentation must be provided to Energy & Environment Awards upon request. This forms part of Energy & Environment Awards' quality assurance process for the PIOL Standard. Please complete the table below by adding a reference(s) to your own paperwork in the document references column.

Documentation Requirements	Please provide the document filename(s)
Employer Assessor training materials	
Employer Assessor documentation	
Guidance for Employer Assessors	
Grading guidance	
Question bank	
Guidance for apprentice and their manager	



#### **Technical Interview Requirements**

Please complete the table below by adding a reference(s) to your own paperwork in the document references column to indicate the page(s) that where evidence of the technical interview requirements are found in your trade test paperwork.

Technical Interview Requirements	Please provide a document reference of where your documentation references the requirement
Space for the start and end time of TI to be documented This will confirm that the TI has lasted at least 60 minutes	
Space to document an apprentice's request to end assessment early and indicate employer assessor suggested assessment continues	
TI date documented	
Guidance includes resource requirements e.g. quiet place, procedures for remote interview	
Process in place to identify the identity of the apprentice and ensure the apprentice is not being aided	
Guidance to employer assessor includes statement 'must ask at least 4 questions (one for each theme minimum)'	
Space for apprentice's responses to be documented	
KSBs demonstrated in answers to questions are indicated	
Preliminary grade achieved recorded	
Guidance for resits / different questions	



#### **Assessor Documentation**

Please complete the table below by adding a reference(s) to your own paperwork in the document references column to indicate the page(s) that where evidence of the grading statements is found in your completed trade test paperwork. If there are sub bullets i.e. parts a, b, c etc then it would be helpful to identify where evidence for each of those sub bullets would be found.

#### Core

Technical Interview Theme: Roles and responsibilities	Please provide a document reference of where the assessor is assessing the grading descriptor
Pass descriptors	
Outlines their role as an overhead linesperson including their limits of responsibility and how they report or escalate issues. (K4, K5, S22, B4)	
Describes how they respond and adapt to work demands in line with organisational requirements, with reference to different teams and functions involved in operations and how they work together. (K4, S22, B4)	
Explains the responsibilities of persons as defined in the industry standard safety rules: supervising a working party, competent persons, and authorisation roles and responsibilities in relation to working under safety documentation. (K5)	



Technical Interview Theme: Electrical danger – control and first aid	Please provide a document reference of where the assessor is assessing the grading descriptor
Pass descriptors	
Explains the dangers of electricity and how an electric shock can be received including direct contact, induced (impressed) voltage, and arcing. Outlines electric shock emergency procedures in line with company procedures. (K8)	
Describes how they would respond in the event of a first aid emergency, with reference to their emergency first aid training and responsibilities and measures they would take to avoid electrical risk in line with company procedures. (K11, S9)	

Technical Interview Theme: Power engineering electrical plant and apparatus	Please provide a document reference of where the assessor is assessing the grading descriptor
Pass descriptors	
Outlines power engineering electrical plant and apparatus, the properties and purpose of transformers, switchgear, earthing devices, voltage control and automated equipment. (K30)	



#### Distribution

Technical Interview Theme: Conductor types and tensions	Please provide a document reference of where the assessor is assessing the grading descriptor
Pass descriptors	
Explains different distribution conductor types and tensions including all aluminium alloy conductor (AAAC) 30-175mm, Cross-linked polyethylene (XLPE), low voltage earthing, domestic and industrial service cables, cadmium and copper conductors 16-150mm. (K37)	

#### **Transmission**

Technical Interview Theme: Transmission support structures	Please provide a document reference of where the assessor is assessing the grading descriptor
Pass descriptors	
Explains transmission support structures' construction methods and requirements for support mechanisms and temporary stays. (K50)	



Employer Declaration		
This is to confirm that our Trade Test Technical Interview documentation maps to the Assessment Requirements as detailed above. A copy of the requested documentation has been provided for reference:		
Employer Name		
Contact Name:		
Job Title:		
Signature:		
Date:		



Copy documentation received	Guidance includes resource requirements e.g. quiet place, procedures for remote interview
Mapping references confirmed	Guidance for resits / different questions
Start / End time of TI documented	Published grading descriptors are used
TI date documented	Apprentice's responses recorded
Space to document ending assessment early	KSBs demonstrated in answers to questions are indicated
Guidance includes statement 'must ask at least 4 questions (one for each theme min)'	Preliminary grade achieved recorded

Comments			



#### Appendix E: Practice Multiple-choice Test



#### Level: 3

# Power Industry Distribution Overheads Linesperson Practice Paper

This examination consists of 40 multiple-choice questions.

The Pass mark is 28 correct answers.

The duration of this examination is 60 minutes.

You must use a **pencil** to complete the answer sheet - pens must NOT be used.

When completed, please leave the examination answer sheet and question paper on the desk.

For this paper the use of a scientific calculator (non-programmable) is permitted.

For each question, fill in ONE answer ONLY.

If you make a mistake, ensure you erase it thoroughly.

You must mark your choice of answer by shading in ONE answer circle only. Please mark each choice like this:

MARKING INSTRUCTIONS		
<b>⊗ © ©</b>	ANSWER COMPLETED CORRECTLY	
Examples of ho	ow NOT to mark your examination sheet. These will not be recorded	
(A) (B) (C) (G)	DO NOT partially shade the answer circle.	
A B Ø 8	DO NOT use ticks or crosses.	
A B O O	DO NOT use circles.	
<b>A B ● ●</b>	DO NOT shade over more than one circle.	



You may use this page for rough work. This page must not be removed.



Question 1		
What is a key difference between IDNOs (Independent Distribution Network Operators) and traditional DNOs (Distribution Network Operators)?		
Poss	Possible answers	
a)	IDNOs operate only in rural areas, while DNOs operate in urban areas	
b)	IDNOs can operate nationwide without regional restrictions, while DNOs have specific geographic regions	
c)	IDNOs generate electricity, while DNOs distribute it	
d)	IDNOs regulate electricity prices, while DNOs do not	

Question 2		
What is ONE of the primary roles of an ICP (Independent Connections Provider)?		
Poss	Possible answers	
a)	Generating electricity	
b)	Regulating electricity prices	
c)	Supplying electricity to consumers	
d)	Designing, constructing, and maintaining electrical infrastructure	

Question 3	
Which ONE of the following is a typical responsibility of an electricity supplier?  Possible answers	
b)	Maintaining the high-voltage transmission grid
c)	Billing customers for electricity usage
d)	Installing home electrical systems



Ques	Question 4	
What	What is the primary role of a power generator?	
Poss	Possible answers	
a)	Converting mechanical energy into electrical energy	
b) Distributing electricity to end consumers	Distributing electricity to end consumers	
c)	Maintaining the transmission grid	
d)	Regulating electricity prices	

Question 5		
To achieve their objectives, Ofgem operate a statutory framework set by the:		
Poss	Possible answers	
a)	European Court of Human Rights	
b)	Confederation of British Industry	
c)	Department for Business, Enterprise and Regulatory Reform	
d)	UK Parliament	

Ques	Question 6	
Identify ONE of the basic requirements of The Electricity at Work Regulations 1989		
Poss	Possible answers	
( a)	Employers must assess electrical risks and implement appropriate control measures	
b)	Outlines quality standards for the voltage levels	
c)	Employers must follow its guidelines for designing and installing electrical systems	
d)	Sets standards for the frequency and duration of power outages	



The Electricity Safety, Quality and Continuity Regulations 2002 (ESQCR) state that network owners shall ensure that their equipment is constructed, installed, protected, used and maintained to prevent danger, in which two areas?

proto	protected, deed and maintained to provent danger, in which two diede:	
Possible answers		
a)	Electrical and mechanical operation	
b)	Daytime and night-time working practices	
c)	Indoor and outdoor asset housings	
d)	Urban and rural locations	

#### **Question 8**

Identify ONE role of customer feedback in power industry operations.

Identi	Identity ONE fole of customer feedback in power industry operations.	
Possible answers		
a)	To increase operational risks	
b)	To improve service quality	
c)	To increase operational costs	
d)	To reduce energy production	

#### **Question 9**

Identify ONE significant financial challenge for the UK power industry in achieving net-zero emissions by 2050.

net-ze	net-zero emissions by 2050.	
Poss	Possible answers	
a)	Increasing operational inefficiencies	
b)	High initial investment costs	
c)	Decreasing energy demand	
d)	Lack of regulatory support	



Question 10		
Identi	Identify ONE impact of ethical business practices on an organisation.	
Poss	Possible answers	
a)	Maximised short-term profits	
b)	Increased brand reputation	
c)	Higher long-term operational costs	
d)	Higher employee turnover rates	

Question 11		
Identify ONE penalty for power companies that fail to meet emission reduction targets?		
Poss	Possible answers	
a)	Financial fines	
b)	Mandatory public apologies	
c)	Suspension of operations	
d)	Increased regulatory scrutiny	

Question 12		tion 12
		estos is left undisturbed and is in a reasonably good visible condition, which of the following practices should the company adopt?
	Possible answers	
	a)	By law, the company must remove the asbestos
	b)	Carry out an inspection on an ad-hoc basis
	c)	The asbestos should be removed from sight by use of boxing-in
	d)	The asbestos should be left in-situ and monitored



In the context of the Construction (Design and Management) Regulations 2015 (CDM 2015), what are individuals such as overhead linesmen, cable jointers and substation fitters defined as?

#### Possible answers Controller a) Designer b) Worker c) d) Delegate

#### **Question 14**

According to Section 2 of the Health and Safety at Work Act 1974, it is the responsibility of every employer, as far as is reasonably practicable, to ensure

employees:	
Possible answers	
a)	health, safety and welfare
b)	have opportunities for future financial incentives
c)	have access to flexible working procedures
d)	Personal Protective Equipment (PPE) fits correctly

#### **Question 15**

According to The Confined Spaces Regulations 1997, before work commences,

which ONE of the following key duties must be fulfilled?	
Possible answers	
a)	Vehicles near the work area are moved outside a five metre exclusion zone
b)	Inspection and maintenance records data must be referred to for guidance
c)	The local weather forecast must be consulted
d)	Adequate emergency arrangements must be put in place



Ques	Question 16	
Which ONE of the following substances is covered by the Control of Substances Hazardous Health Regulations 2002 (COSHH)?		
Possible answers		
a)	White Spirit	
b)	Radioactive substances	
c)	Lead	
d)	Ashestos	

Question 17	
Regulation 8(2) of the Lifting Operations and Lifting Equipment Regulations 1998 (LOLER) defines a lifting operation as 'an operation concerned with the lifting or lowering of:	
Possible answers	
a)	a pallet
b)	a load
c)	plant and switchgear
d)	any item requiring more than two persons to lift it

Question 18	
Identify the regulations that requires employers to carry out lone worker risk assessments.	
Possible answers	
a)	The Provision and Use of Work Equipment Regulations 1998
b)	Management of Health and Safety at Work Regulations 1999
c)	Working Time Regulations 1998
d)	Health and Safety (Signs and Signals) Regulations 1996



After how many days of absence due to a work-related injury must an employer report the incident under RIDDOR (Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013)?

	3	
Possik	Possible answers	
a)	3	
b)	7	
c)	10	
d)	14	

#### **Question 20**

What type of sign is this?		
Poss	ible answers	
a)	Prohibition	
b)	Warning	
c)	Mandatory	
d)	Help	

### 



Question 22	
Which ONE of the following is a primary environmental concern for power plants in England?	
Possible answers	
a)	Noise pollution
b)	Visual impact
c)	Light pollution
d)	Carbon emissions

Ques	Question 23	
Who typically grants a wayleave?		
Possible answers		
a)	Local authorities	
b)	Landowners or landlords	
c)	Utility companies	
d)	Government agencies	

Question 24	
If a stay wire is connected to a power line pole 12 metres above ground and attached to a ground anchor 5 metres from the pole, what is the length of the stay wire assembly?	
Possible answers	
a)	10 metres
b)	13 metres
c)	14 metres
d)	17 metres



Using the formula:

$$s = \frac{wL^2}{8T}$$

Calculate the sag (s) in a power line, to 2 decimal places, where:

- Span length (L) = 100 metres
- Weight per unit length of the conductor (w) = 9.81 N/m
- Horizontal tension in the conductor (T) = 2000 N

Poss	Possible answers	
a)	0.61 metres	
b)	0.63 metres	
c)	3.07 metres	
d)	6.13 metres	

#### **Question 26**

A project requires 200 metres of cable, but 15% of the cable will be wasted due to cutting and splicing.

How much cable should be ordered to account for the waste?

Poss	Possible answers	
a)	210 metres	
b)	220 metres	
c)	230 metres	
d)	240 metres	



A power company decides to upgrade an existing power line to handle increased demand from a new residential development.

Using Watt's Law, calculate the additional current that the conductors will need to handle, given:

- The total additional load (P) = 500 kW
- Voltage = 11 kV

Poss	Possible answers		
a)	0.45 A		
b)	4.54 A		
c)	45.45 A		
d)	454.50 A		

#### **Question 28**

An overhead linesperson needs to convert the total length of power lines from miles to kilometres for a project report. The total length of the power lines is 31.07 miles. What is the distance in kilometres, to the nearest kilometre?

Assume 1 kilometre = 0.621 miles

Possible answers		
a)	19 km	
b)	21 km	
c)	50 km	
d)	62 km	



An overhead linesperson needs to install a new power pole and must calculate the volume of concrete required for the cylindrically shaped foundation.

Calculate the volume of the cylindrical foundation, given:

- Diameter of the cylindrical foundation: 1 metre
- Depth of the foundation: 2 metres

Assume  $\pi = 3.14$ 

Poss	Possible answers		
a)	1.57 m <sup>3</sup>		
b)	3.14 m <sup>3</sup>		
c)	6.28 m <sup>3</sup>		
d)	12.56 m <sup>3</sup>		

Question 30		
Which ONE of the following best describes mass?		
Possible answers		
a)	The amount of matter in an object	
b)	The force exerted by an object due to gravity	
c)	The amount of space an object occupies	
d)	The energy possessed by an object	



Ques	Question 31	
What is tensile strength?		
Possible answers		
a)	The ability of a material to resist deformation	
b)	The maximum stress a material can withstand while being pulled before breaking	
c)	The ability of a material to return to its original shape after deformation	
d)	The resistance of a material to scratching or abrasion	

Question 32		
Which ONE of the following factors does <b>NOT</b> affect the mechanical advantage of a lever?		
Possible answers		
a)	Length of the input arm	
b)	Length of the output arm	
c)	Position of the fulcrum	
d)	Weight of the lever	

Question 33		
Which ONE of the following is <b>true</b> for a system in static equilibrium?		
Possible answers		
(a)	The system must be at rest	
b)	The system must be accelerating	
c)	The system must be moving at a constant velocity	
d)	The sum of all external forces and moments must be zero	



Question 34		
What is the significance of understanding wind load in overhead line design?		
Possible answers		
a)	To measure the voltage drop	
b)	To determine the power loss	
c)	To calculate the electrical resistance	
d)	To ensure the structural integrity of poles and towers	

Question 35		
Which component in a hydraulic system is responsible for converting fluid power into mechanical motion?		
Possible answers		
a)	Pump	
b)	Actuator	
c)	Reservoir	
d)	Filter	

Question 36		
What is the primary function of a lever?		
Possible answers		
a)	To amplify an input force to provide a greater output force	
b)	To change the direction of a force	
c)	To decrease the weight of an object	
d)	To increase the speed of an object	



Question 37		
Which type of circuit allows current to flow through multiple paths?		
Possible answers		
a)	Series Circuit	
b)	Parallel Circuit	
c)	Open Circuit	
d)	Short Circuit	

Question 38		
What is the unit of magnetic flux?		
Possible answers		
a)	Farad	
b)	Henry	
c)	Tesla	
d)	Weber	

	Question 39						
	Which	n law explains the operation of transformers?					
Possible answers							
	a)	Ohm's Law					
	b)	Faraday's Law of Electromagnetic Induction					
	c)	Coulomb's Law					
	d)	Kirchhoff's Law					



Ques	Question 40						
Which device uses electromagnetic induction to produce electricity?							
Poss	Possible answers						
a)	Transformer						
b)	Capacitor						
c)	Resistor						
d)	Generator						

### **End of Questions**



## Practice Multiple-choice Test

#### Answer scheme

Question	Answer	Question	Answer	Question	Answer
1	В	15	D	29	Α
2	D	16	Α	30	А
3	С	17	В	31	В
4	Α	18	В	32	D
5	D	19	В	33	D
6	Α	20	В	34	D
7	Α	21	D	35	В
8	В	22	D	36	Α
9	В	23	В	37	В
10	В	24	В	38	D
11	Α	25	D	39	В
12	D	26	С	40	D
13	С	27	С		
14	A	28	С		



## Appendix F: Practice Interview based on an EPA Portfolio Form



# Power Industry Overhead Linesperson - Distribution Interview

Full Name of Apprentice						
Apprentice ID checked						
Location of End-point Assessment						
Full Name of Assessor						
Date of Interview						
Start Time						
End Time						
Apprentice asked to end the assessment early (check the box)						
Ind. Assessor suggested assessment continues (check the box)						
Resit (check the box)						
Assessor additional comments						
	Grade					
Please indicate the apprentice's p	oreliminary grade for the					
interview (F/P/D):						
By signing below, I confirm that the information provided is correct and the preliminary grade awarded is a true reflection of the performance by the apprentice.						
Assessor Signature:	Date:					
Diago Noto:						

#### Please Note:

To achieve a Pass, the Apprentice must achieve all the pass descriptors.

To achieve a Distinction, the Apprentice must achieve all the pass descriptors and **all** the distinction descriptors.

Fail: the apprentice does not demonstrate all the pass descriptors.

EEA Level 3 End-point Assessment for Power Industry Overhead Linesperson (Distribution; Transmission) Supporting Documents v2.0 QAN: 610/6031/8 – ST1330\_ V1.1 © 2025 Energy & Environment Awards Limited



#### Introduction

At the start of the interview the assessor will:

- Introduce themselves
- State their role
- State the date of the interview
- Request and confirm ID from the apprentice prior to beginning the assessment
- Provide apprentice with information on the format of the with questions, including the timescales they will be working to

#### The apprentice will:

- Confirm their full name
- Confirm their date of birth
- Give their employer's name
- Confirm their location and that no one else is present in the room, if remote apprentice to pan camera 360°
- · Confirm they are prepared for the interview; and confirm they can continue with the interview
- Confirm that the evidence within the portfolio relates to the KSB's that will be assessed during the interview

#### Important points to inform the apprentice

- Please don't judge anything by the notes being taken, nor infer anything positive or negative from how long the interview lasts
- Please don't consider me rude if I tell you that we need to move onto the next question. This will ensure that you get the
  opportunity to fully demonstrate your competencies within the time allowed
- Ensure the apprentice has a drink of water to hand
- Please ensure that your mobile is switched off or placed somewhere where you will not be interrupted during the interview
- · Confirm that a sign is placed on the door of the interview room. Interview in progress 'Do not disturb'

Note: The live interview will be fully recorded for the purpose of audit and quality assurance



#### **Assessor Guidance**

#### Delivery

- The interview will last 70 minutes. An additional 10% is allowed for the apprentice to complete their last answer
- You must be in full control. Time management is key! If the apprentice veers off track, they need to be reined back in
- The apprentice may choose to end the assessment method early
- You must ensure the apprentice is fully aware of all assessment requirements
- You cannot suggest or choose to end the assessment methods early, unless in an emergency
- You must ensure the apprentice understands the implications of ending an assessment early if they choose to do so
- You may suggest the assessment continues
- You must document the apprentice's request to end the assessment early
- You must ask a minimum of eight open questions
- The purpose of the questions is to cover the following topics: Communication and working with others; Sustainability; CPD and improvement activities; Working on the highway, location and avoidance of utilities and customer service
- Please work through the sections in the order they appear within this document
- Additional follow-up questions are allowed to seek clarification and to make a judgement against grading descriptor
- The text of additional questions must be recorded on this document
- Adapt the questions to the apprentice's circumstances following your review of their portfolio evidence
- Supply brief written notes where each criterion has been met
- If the apprentice does not achieve a descriptor, provide written notes that you can feed back to the apprentice to help the apprentice prepare for the live interview
- Both the recording and the written notes will be subject to IQA.

At the end of the interview - Thank the apprentice for their time



Task 1: Communication and working with others

To achieve a PASS the apprentice must demonstrate ALL the following pass descriptors	Р	To achieve a DISTINCTION the apprentice must achieve ALL the pass descriptors and ALL the distinction descriptors	D
Describes how they apply written communication techniques to produce or amend documents in their work that are suitable for the context.			
Describes how they use information and digital technology – computers and mobile devices - in the workplace in compliance with their organisation's cyber security requirements. Outlines the requirements of the General Data Protection Regulation			
Describes how they apply team working principles to meet work goals and support inclusivity in line with their company's policy on equality, diversity, and inclusion.		Justifies the application of teamworking principles to meeting work goals.	
Portfolio			
reference			
Pass questions - to be tailored to apprent	<u> </u>	ortfolio	
Develop some open-ended questions  Distinction questions - to be tailored to ap		tice portfolio	
Develop some open-ended questions		nce portiono	
Note any additional questions asked du		interview	
Thorough a desired and a desir	9		
Fail 🗆 P	ass	□ Distinction □	
Summary of response to question(s):			
Box will expand to take all comments			



# Feedback that you can provide to the apprentice if the apprentice has failed to meet the Pass criteria

Box will expand to take all comments

**K22 S23** Written Communication **K24 S24** Information and digital technology **K25 K26 S21 B6** Teamwork



Task 2: Sustainability

To achieve a PASS the apprentice must demonst the following pass descrip		Р	apprentice i	a DISTINCTION the must achieve ALL the ptors and ALL the lescriptors	D	
Describes how they consider and apply the principles of sustainability and the circular economy in their own work to support their employer's and the power industry's net zero strategy with reference to the impact of sites of special scientific interest and flora and fauna on work, and the potential effects on the environment of companies and individuals not complying with good environmental practices.			Justifies the application of sustainability practices in the power industry.			
Portfolio reference						
Pass questions - to be tailored	to apprenti	ce po	ortfolio			
Develop some open-ended	questions					
Distinction questions - to be ta	ilored to ap	pren	tice portfolio			
Develop some open-ended	questions					
Note any additional questions	s asked du	ring	interview			
Fail □	Pa	ass		Distinction		
Summary of response to question(s):  Box will expand to take all comments						
Feedback that you can provide to the apprentice if the apprentice has failed to meet the Pass criteria  Box will expand to take all comments						

K17 S11 B2 Sustainability



Task 3: CPD and improvement activities

To achieve a PASS the apprentice must demonstrate ALL the following pass descriptors	Р	apprentice	a DISTINCTION the must achieve ALL the iptors and ALL the descriptors	D		
Outlines the planned and unplanned learning and development activities they have carried out and recorded and shows a commitment to future continued professional development to maintain and enhance competence.						
Describes how they have identified an area for improvement in the workplace.		improvement	ootential impact of the suggestion with to benefits and any s.			
Portfolio reference						
Pass questions - to be tailored to apprent	ice p	ortfolio				
Develop some open-ended questions	3					
Distinction questions - to be tailored to ap	pren	tice portfolio				
Develop some open-ended questions	3					
Note any additional questions asked du	uring	interview				
Fail □ P	ass		Distinction			
Summary of response to question(s): Box will expand to take all comments						
Feedback that you can provide to the apprentice if the apprentice has failed to meet the Pass criteria  Box will expand to take all comments						

S25 B7 CPD (Continued professional development)

\$19 Contribute to improvement activities



Task 4: Working on the highway, location and avoidance of utilities and customer service

To achieve a PASS the apprentice must demonstrate ALL the following pass descriptors	Р	To achieve a DISTINCTION the apprentice must achieve ALL the pass descriptors and ALL the distinction descriptors
Describes how they conduct plant or vehicle checks in line with company requirements.		
Explains requirements for signing, lighting, and guarding and safe excavation in line with the New Roads and Street Works Act.		
Describes how they carry out visual inspections, use electronic locating equipment to identify evidence of overhead services, buried utilities and other utility apparatus as per utility plan and mark the position of services and sub-structures on the work site in line with the health and safety executive guidance and requirements: HSG 47 (Avoiding danger from underground services) and GS6 (Avoiding danger from overhead power lines).  Describes how they apply customer		
service techniques to meet company requirements.		
Portfolio		
reference		
Pass questions - to be tailored to apprent		ortfolio
Develop some open-ended questions		
Note any additional questions asked du	ıring	interview
Fail □		Pass □



#### Summary of response to question(s):

Box will expand to take all comments

Feedback that you can provide to the apprentice if the apprentice has failed to meet the Pass criteria

Box will expand to take all comments

K15 S5 Plant or vehicle checks

**K46** New Roads and Street Works Act

K33 K40 S27 S28 Location and avoidance of utilities

K43 S45 Customer Service



# Power Industry Overhead Linesperson - Transmission Interview

Full Name of Apprentice						
Apprentice ID checked						
Location of End-point Assessment						
Full Name of Assessor						
Date of Interview						
Start Time						
End Time						
Apprentice asked to end the assessment early (check the box)						
Ind. Assessor suggested assessment continues (check the box)						
Resit (check the box)						
Assessor additional comments						
	Grade					
Please indicate the apprentice's p interview (F/P/D):	reliminary grade for the					
By signing below, I confirm that the information provided is correct and the preliminary grade awarded is a true reflection of the performance by the apprentice.						
Assessor Signature:	Date:					
D. N. 4						

#### Please Note:

To achieve a Pass, the Apprentice must achieve all the pass descriptors.

To achieve a Distinction, the Apprentice must achieve all the pass descriptors and **all** the distinction descriptors.

Fail: the apprentice does not demonstrate all the pass descriptors.

EEA Level 3 End-point Assessment for Power Industry Overhead Linesperson (Distribution; Transmission) Supporting Documents v2.0 QAN: 610/6031/8 – ST1330\_ V1.1 © 2025 Energy & Environment Awards Limited



#### Introduction

At the start of the interview the assessor will:

- Introduce themselves
- State their role
- State the date of the interview
- Request and confirm ID from the apprentice prior to beginning the assessment
- Provide apprentice with information on the format of the with questions, including the timescales they will be working to.

#### The apprentice will:

- Confirm their full name
- Confirm their date of birth
- Give their employer's name
- Confirm their location and that no one else is present in the room, if remote apprentice to pan camera 360°
- Confirm they are prepared for the interview; and confirm they can continue with the interview
- Confirm that the evidence within the portfolio relates to the KSB's that will be assessed during the interview.

#### Important points to inform the apprentice

- Please don't judge anything by the notes being taken, nor infer anything positive or negative from how long the interview lasts.
- Please don't consider me rude if I tell you that we need to move onto the next question. This will ensure that you get the opportunity to fully demonstrate your competencies within the time allowed.
- Ensure the apprentice has a drink of water to hand
- Please ensure that your mobile is switched off or placed somewhere where you will not be interrupted during the interview.
- Confirm that a sign is placed on the door of the interview room. Interview in progress 'Do not disturb'.

Note: The live interview will be fully recorded for the purpose of audit and quality assurance



#### **Assessor Guidance**

#### Delivery

- The interview will last 60 minutes. An additional 10% is allowed for the apprentice to complete their last answer
- You must be in full control. Time management is key! If the apprentice veers off track, they need to be reined back in
- The apprentice may choose to end the assessment method early.
  - o You must ensure the apprentice is fully aware of all assessment requirements.
  - o You cannot suggest or choose to end the assessment methods early, unless in an emergency
  - o You must ensure the apprentice understands the implications of ending an assessment early if they choose to do so
  - You may suggest the assessment continues
  - You must document the apprentice's request to end the assessment early
- You must ask a minimum of six open questions
- The purpose of the questions is to cover the following topics: Communication and working with others; Sustainability; CPD and improvement activities; Locating and avoiding utilities
- Please work through the sections in the order they appear within this document
- Additional follow-up questions are allowed to seek clarification and to make a judgement against grading descriptor
- The text of additional questions must be recorded on this document
- Adapt the questions to the apprentice's circumstances following your review of their portfolio evidence
- Supply brief written notes where each criterion has been met
- If the apprentice does not achieve a descriptor, provide written notes that you can feed back to the apprentice to help the apprentice prepare for the live interview
- Both the recording and the written notes will be subject to IQA.

At the end of the interview - Thank the apprentice for their time



Task 1: Communication and working with others

To achieve a PASS the apprentice must demonstrate ALL the following pass descriptors	Р	To achieve a DISTINCTION the apprentice must achieve ALL the pass descriptors and ALL the distinction descriptors	D
Describes how they apply written communication techniques to produce or amend documents in their work that are suitable for the context.			
Describes how they use information and digital technology – computers and mobile devices - in the workplace in compliance with their organisation's cyber security requirements. Outlines the requirements of the General Data Protection Regulation			
Describes how they apply team working principles to meet work goals and support inclusivity in line with their company's policy on equality, diversity, and inclusion.		Justifies the application of teamworking principles to meeting work goals.	
Portfolio			
reference			
Pass questions - to be tailored to apprent	<u> </u>	ortfolio	
Develop some open-ended questions  Distinction questions - to be tailored to ap		tice portfolio	
Develop some open-ended questions		nce portiono	
Note any additional questions asked du		interview	
Thorough a desired and a desir	9		
Fail 🗆 P	ass	□ Distinction □	
Summary of response to question(s):			
Box will expand to take all comments			



# Feedback that you can provide to the apprentice if the apprentice has failed to meet the Pass criteria

Box will expand to take all comments

K22 S23 Written Communication K24 S24 Information and digital technology K25 K26 S21 B6 Teamwork



Task 2: Sustainability

To achieve a PASS the apprentice must demonstrate ALL the following pass descriptors		Р	To achieve a DISTINCTION the apprentice must achieve ALL the pass descriptors and ALL the distinction descriptors	D			
Describes how they consider and apply the principles of sustainability and the circular economy in their own work to support their employer's and the power industry's net zero strategy with reference to the impact of sites of special scientific interest and flora and fauna on work, and the potential effects on the environment of companies and individuals not complying with good environmental practices.			Justifies the application of sustainability practices in the power industry.				
Portfolio reference							
Pass questions - to be tailored	to apprentice	e po	ortfolio				
Develop some open-ended	questions						
Distinction questions - to be ta	ilored to appr	ren	tice portfolio				
Develop some open-ended	questions						
Note any additional questions	s asked duri	ng	interview				
Fail □	Pas	s	□ Distinction □				
	Summary of response to question(s):  Box will expand to take all comments						
Feedback that you can provide to the apprentice if the apprentice has failed to meet the Pass criteria  Box will expand to take all comments							

K17 S11 B2 Sustainability



Task 3: CPD and improvement activities

To achieve a PASS the apprentice must demonstrate ALL the following pass descriptors		apprentice	a DISTINCTION the must achieve ALL the iptors and ALL the descriptors	D		
Outlines the planned and unplanned learning and development activities they have carried out and recorded and shows a commitment to future continued professional development to maintain and enhance competence.						
Describes how they have identified an area for improvement in the workplace.		improvement	potential impact of the suggestion with to benefits and any s.			
Portfolio						
reference						
Pass questions - to be tailored to apprent	ice p	ortfolio				
Develop some open-ended questions	5					
Distinction questions - to be tailored to ap	pren	tice portfolio				
Develop some open-ended questions	;					
Note any additional questions asked du	ıring	interview				
Fail □ P	ass		Distinction			
Summary of response to question(s): Box will expand to take all comments						
Feedback that you can provide to the apprentice if the apprentice has failed to meet the Pass criteria  Box will expand to take all comments						

**S25 B7** CPD (Continued professional development)

\$19 Contribute to improvement activities



#### Task 4: Locating and avoiding utilities

To achieve a PASS the apprentice must demonstrate ALL the following pass descriptors	Р	To achieve a DISTINCTION the apprentice must achieve ALL the pass descriptors and ALL the distinction descriptors
Explains methods for locating and avoiding utilities in line with the health and safety executive guidance and requirements: HSG 47 (Avoiding danger from underground services) and GS6 (Avoiding danger from overhead power lines).		
Portfolio reference		
Pass questions - to be tailored to apprentice portfolio		
Develop some open-ended questions		
Note any additional questions asked during interview		
Fail □		Pass □
Summary of response to question(s): Box will expand to take all comments		
Feedback that you can provide to the apprentice if the apprentice has failed to meet the Pass criteria  Box will expand to take all comments		

K49 Locating and avoiding utilities



# Appendix G: Example: Trade Test Practical Assessor Recording Form

Energy & Environment Awards are required to approve employers' trade test practical assessment with questions materials to be used by employer assessors, apprentices and their managers. The following pages include an example trade test practical assessment recording form for assessors. This form can be used by employers without adaptation or as a starting point for creating an employer-specific trade test practical assessment with questions recording form for employer assessors.



## Power Industry Overhead Linesperson

### Trade Test Practical Assessment with Questions

#### Instructions for the employer assessor

#### Delivery

- The trade test practical assessment with questions:
  - o must take 30 37.5 hours
  - 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
- You must:
  - observe apprentices in line with the employer's trade test assessment specification including the ratio of employer assessors to apprentices.
     You must be as unobtrusive as possible
  - explain to the apprentice the format and timescales of the trade test practical assessment with questions tasks before they start. This does not count towards the assessment time
  - ask at least 10 questions. Questioning can occur both during and after the practical assessment
  - use the questions from the employer's question bank or tailor questions to suit individual circumstances
  - write each tailored question below the sample standardised question
- You can ask follow-up questions to clarify answers given by the apprentice.
   These questions are in addition to the above set number of questions for the trade test practical assessment with questions

The time for questioning is included in the overall assessment time.

Answers to questions, must be documented.

The apprentice may choose to end the assessment method early

 You must ensure the apprentice is fully aware of all assessment requirements



- You cannot suggest or choose to end the assessment methods early, unless in an emergency
- You must ensure the apprentice understands the implications of ending an assessment early if they choose to do so
- You may suggest the assessment continues
- You must document the apprentice's request to end the assessment early



Name of Apprentice				
☐ Apprentice ID checked				
Option				
Are Reasonable Adjustments				
required? Yes □ No □				
Please give details				
Location of Trade test				
Full Name of Employer Assessor				
Date(s) of Trade Test				
Total Assessment Time				
Apprentice asked to end the assessment early (check the box)		. 4.		
Employer Assessor suggested assessment continues (check the box)				
Grading Fail - does not meet pass criteria To achieve a PASS the apprentice must demonstrate ALL the PASS descriptors for the Core and their option To achieve a DISTINCTION the apprentice must achieve ALL the PASS descriptors and ALL the DISTINCTION descriptors for the Core and their option				
Preliminary Grade awarded		Distinction	Pass	Fail
(Please indicate in the relevant box	<b>(</b> )			
Employer Assessor Justification for	r Pre	liminary Grade	e awarded:	



Trade Test Practical Assessment Summary	Pass	DIstinction
Core		
Group 1: Prepare for power overhead lines activities K20 S1 S2 S3 S17		
Group 2: Organise and supervise a working party S6 B3		
Group 3: Maintain work site health, safety, and environment compliance K7 K10 K14 K18 S7 S8 S10 S12 B1		
Group 4: Work at height K12 K13 S14 S15 S16		
Group 5: Identify apparatus S4		
Group 6: Tools and equipment S13		
Group 7: Communicate with others K21 S20 B5		
Group 8: Complete work records K23 S18		
Distribution		
Group 9: Work on or in proximity to live apparatus K34 S29 S30		
Group 10: Distribution lifting operations K38 S26		
Group 11: Install distribution support structures and their		
support mechanisms K35 K36 S31		
Group 12: Install fixed and temporary earthing K41 S32 S33		
Group 13: Install distribution conductors K31 K42 S34 S35		



Trade Test Practical Assessment Summary	Pass	DIstinction
Group 14: Install and dismantle pole mounted plant and		
apparatus		
K39 S36 S37		
Group 15: Conduct electrical testing		
K45 S38 S39 S41		
Group 16: Problem solving and fault-finding	П	
K32 S43 S44		
Group 17: Make and break live connections	П	
K44 S40 S42		
Transmission		
Group 9: Work in proximity to live apparatus	П	
K48 S46 S48		
Group 10: Transmission Lifting operations		
K51 S47		
Group 11: Install access equipment		
S49		
Group 12: Install temporary earthing		
K52 K53 S50		
Group 13: Install and test transmission conductors		
K47 S51 S53		
Group 14: Test compression joints		
S52 S54		



#### Introduction

At the start of the trade test the Employer Assessor will:

- Introduce themselves
- Confirm their role
- Provide apprentice with information on the format of the trade test, including the timescales they will be working to

(The Employer Assessor can share the grading guidance with the apprentice as this appears in the assessment plan)

The apprentice will:

- · Give their full name
- Their date of birth
- Confirm they are prepared for the trade test; and confirm they can continue with the trade test.

The apprentice will be asked to show their identification to the Employer Assessor prior to beginning the assessment.

#### Important points to inform the apprentice

- If at any point during the trade test you perform an unsafe act/task which contravenes Health and Safety, I will immediately stop the trade test
- Please do not judge anything by me taking notes and you should not infer anything positive or negative from how long the trade test lasts
- Ensure that your mobile is turned off or placed somewhere where you will not be interrupted during the trade test



#### Group 1: Prepare for power overhead lines activities

Reviews drawings, instructions, or information to understand the task's requirements. (S1)  Plans tasks and identifies and organises resources required to complete tasks for self and working party using planning, prioritising, and time management techniques with consideration for safety, environmental impact, quality, and cost. (K20, S2, S3)
requirements. (S1)  Plans tasks and identifies and organises resources required to complete tasks for self and working party using planning, prioritising, and time management techniques with consideration for safety, environmental impact,
Plans tasks and identifies and organises resources required to complete tasks for self and working party using planning, prioritising, and time management techniques with consideration for safety, environmental impact,
tasks for self and working party using planning, prioritising, and time management techniques with consideration for safety, environmental impact,
management techniques with consideration for safety, environmental impact,
quality, and cost. (K20, S2, S3)
Selects, checks and prepares resources in line with task requirements. (S17)
To achieve a DISTINCTION the apprentice must achieve ALL the PASS D
descriptors and ALL of the following:descriptors
Justifies their planning in terms of efficiencies achieved and the balance of
safety, environmental impact, quality, and cost in planning decisions. (K20,
S2, S3)
Comments: (what was observed)
Questions to help evidence the Pass and Distinction descriptors above
Develop some open-ended questions
Write down the question(s) asked:
Summary of response to question(s):



Provide comments expl	Provide comments explaining the reasons for awarding a Fail, Pass or			
Distinction grade award activities	led fo	r Group 1: Prepare for power overhead lines		
Group 1 - Fail				
Group 1 - Pass				
Group 1 - Distinction				

**K20**: Planning, prioritising, organisation, and time management techniques for self and working party.

**S1**: Review drawings, instructions, or information to understand the task for example, work instructions, wiring diagrams, 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.



#### Group 2: Organise and supervise a working party

descriptors			
Receives and clears a sa	fety d	ocument and briefs a working party in line with	
company requirements taking ownership for work and responsibility for the			
impact of the work on other	ers. (	S6, B3)	
Comments: (what was o	bser	ved)	
-		the Pass descriptors above	
Develop some open-ende			
Write down the question	า(s) a	isked:	
Summary of response to	o que	estion(s):	
Provide comments expl	Provide comments explaining the reasons for awarding a Fail, Pass or		
Distinction grade award	ed fo	or Group 2: Organise and supervise a working	l
party			
7			
Group 2 - Fail			
Group 2 - Pass			
<u></u>	L		

To achieve a PASS the apprentice must demonstrate ALL the following pass

**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.



#### Group 3: Maintain work site health, safety, and environmental compliance

To achieve a PASS the apprentice must demonstrate ALL the following pass	Р		
descriptors			
Identifies hazards and risks in the workplace and applies control measures			
including consideration of hazards associated with work on or near electrical			
power networks. (K7, K10, S7, S8, B1)			
Prioritises and applies health and safety procedures in compliance with			
regulations and standards mitigating against risks including emergency			
procedures, personal protective equipment, manual handling, and fire safety.			
(K7, K10, S7, S8, B1)			
Applies measures to leave power work environments in a safe and secure			
condition in line with company procedures. (K14, S10)			
Segregates resources for reuse, recycling, and waste handling in line with			
company procedures for recycling and waste transfer. (K18, S12)			
To achieve a DISTINCTION the apprentice must achieve ALL the PASS	D		
descriptors and ALL of the following:descriptors	ט		
Justifies how the controls they applied eliminated or reduced risks to an			
acceptable level using a hierarchical approach to risk assessment. (K7, K10,			
S7)			
Comments: (what was observed)			
Questions to help evidence the Pass and Distinction descriptors above			
Develop some open-ended questions			
Write down the question(s) asked:			
Summary of response to question(s):			
Summary of response to question(s).			



Provide comments explaining the reasons for awarding a Fail, Pass or			
Distinction grade awarded for Group 3: Maintain work site health, safety, and			
environmental compliance			
•			
Group 3 - Fail			
Group 3 - Pass			
•	Ш		
Group 3 - Distinction			

**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.



#### Group 4: Work at height

To achieve a PASS the apprentice must demonstrate ALL the following pass	Р
descriptors	
Uses working at height equipment for safe working at height access and	
egress in line with hierarchy of methods, inspection, and operation	
requirements and exclusion zone requirements to avoid risk from falling	
objects. (K12, K13, S14, S15, S16)	
Selects personal climbing equipment suitable for the context. Inspects and	
uses it to access and manoeuvre to a work position at height on overhead line	
plant and apparatus in line with company procedures for inspection and	
operation. (K12, K13, S14, S15, S16)	
Fits and operates a rescue device at height suitable for context and in line	
with company procedures. (K12, K13, S14, S15, S16)	
Explains maintenance requirements for working at height equipment and	
personal climbing equipment in line with company procedures. (K12, K13,	
S14, S15, S16)	
Comments: (what was observed)	
Questions to help evidence the Pass descriptors above	
Develop some open-ended questions	
Write down the question(s) asked:	
Summary of response to question(s):	



Provide comments expl	Provide comments explaining the reasons for awarding a Fail, Pass or			
Distinction grade awarded for Group 4: Work at height				
		-		
Group 4 - Fail				
Group 4 - Pass	П			
Oloup + - 1 ass	ш			

**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.

**\$15:** 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.



#### Group 5: Identify apparatus

To achieve a PASS the a descriptors	ppren	tice must demonstrate ALL the following pass	Р
Identifies apparatus to be the equipment and the sit		ed on using identification methods suitable for n. (S4)	
Comments: (what was o	bser	ved)	
Questions to help evide Develop some open-ende		he Pass descriptors above	
Write down the question			
Summary of response to	o que	estion(s):	
Provide comments expl	ainin	g the reasons for awarding a Fail, Pass or	
Distinction grade award	ed fo	r Group 5: Identify apparatus	
Group 5 - Fail			
Group 5 - Pass			

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



#### Group 6: Tools and equipment

descriptors	
Selects, checks, and prepares personal tools and equipment suitable for the	
task in line with company procedures. (S13)	
Uses or operates personal tools and equipment in line with safety and	
operational requirements. (S13)	
Stores personal tools and equipment in line with company procedures. (S13)	
Comments: (what was observed)	
Commonto: (what was observed)	
Questions to help evidence the Pass descriptors above	
Develop some open-ended questions	
Write down the question(s) asked:	
Summary of response to question(s):	
Drevide comments explaining the recent for excepting a Feil Dece or	
Provide comments explaining the reasons for awarding a Fail, Pass or	
Distinction grade awarded for Group 6: Tools and equipment	
Group 6 - Fail	
Group 6 - Pass	

To achieve a PASS the apprentice must demonstrate ALL the following pass

**\$13**: Select, check, prepare, use or operate, and store personal tools and equipment.



#### Group 7: Communicate with others

descriptors	
Communicates with others to give and receive information in a professional	
manner using communication techniques and industry terminology suitable	
for the context. (K21, S20, B5)	
Comments: (what was observed)	
Questions to help evidence the Pass descriptors above	
Develop some open-ended questions	
Write down the question(s) asked:	
Summary of response to question(s):	
Provide comments explaining the reasons for awarding a Fail, Pass or	
Distinction grade awarded for Group 7: Communicate with others	
7	
Group 7 - Fail	
Group 7 - Pass	
C.	

To achieve a PASS the apprentice must demonstrate ALL the following pass

**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.



#### Group 8: Complete work records

descriptors			
Records information for w	ork ta	asks in line with company documentation	
requirements. (K23, S18)			
Comments: (what was o	bser	ved)	
Questions to help evide Develop some open-ende		he Pass descriptors above	
' '			
Write down the question	1(S) a	skeu.	
Summary of response to	o alle	estion(s):	
outilitary of response to	o que	stion(s).	
Provide comments expl	ainin	g the reasons for awarding a Fail, Pass or	
-		r Group 8: Complete work records	
Group 8 - Fail			
Group 8 - Pass			
	i		

To achieve a PASS the apprentice must demonstrate ALL the following pass

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

**\$18:** Record information.



#### Distribution

descriptors

Group 9: Work on or in proximity to live apparatus

justification for live working including selection and use of specialist LV live working PPE in line with protocols. (K34, S29, S30)  Comments: (what was observed)  Questions to help evidence the Pass descriptors above Develop some open-ended questions  Write down the question(s) asked:  Summary of response to question(s):  Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass  Group 9 - Pass	Follows procedures for wo	orkinç	on or in proximity to live apparatus with	
Comments: (what was observed)  Questions to help evidence the Pass descriptors above Develop some open-ended questions  Write down the question(s) asked:  Summary of response to question(s):  Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass	justification for live workin	g incl	uding selection and use of specialist LV live	
Questions to help evidence the Pass descriptors above Develop some open-ended questions  Write down the question(s) asked:  Summary of response to question(s):  Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass	working PPE in line with p	rotoc	cols. (K34, S29, S30)	
Questions to help evidence the Pass descriptors above Develop some open-ended questions  Write down the question(s) asked:  Summary of response to question(s):  Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass				.1
Write down the question(s) asked:  Summary of response to question(s):  Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass	Comments: (what was o	bser	ved)	
Write down the question(s) asked:  Summary of response to question(s):  Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass				
Write down the question(s) asked:  Summary of response to question(s):  Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass				
Write down the question(s) asked:  Summary of response to question(s):  Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass	-		•	
Summary of response to question(s):  Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass	Develop some open-ende	d que	estions	
Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass	Write down the question	า(s) a	sked:	
Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass				
Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass				
Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass				
Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass	Summary of response to	o que	estion(s):	
Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass				
Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass				
Distinction grade awarded for Group 9: Work on or in proximity to live apparatus  Group 9 - Fail  Group 9 - Pass				
Group 9 - Fail	Provide comments expl	ainin	g the reasons for awarding a Fail, Pass or	
Group 9 - Fail Group 9 - Pass	Distinction grade award	ed fo	r Group 9: Work on or in proximity to live	
Group 9 - Pass	apparatus			
Group 9 - Pass				
Group 9 - Pass				
Group 9 - Pass				
Group 9 - Pass				
Group 9 - Pass				
·	Group 9 - Fail			
·	Group 9 - Pass	П		
	•		and working in provimity to live apparatus protoc	role

To achieve a PASS the apprentice must demonstrate ALL the following pass

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**S29**: Follow procedures for working on or in proximity to live apparatus.

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

Justification for live working.



#### Group 10: Distribution lifting operations

up to 132kv.

example, cranes and winches.

descriptors			
Selects and operates lifting	ıg eqı	uipment suitable for the task and in line with	
company procedures for o	distrib	ution rigging on conductors and transmission	
towers. (K38, S26)			
Comments: (what was o	bser	ved)	
Questions to help evide	nce t	he Pass descriptors above	
Develop some open-ende	ed que	estions	
Write down the question	n(s) a	sked:	
Summary of response to	o que	estion(s):	
Provide comments expl	ainin	g the reasons for awarding a Fail, Pass or	
Distinction grade award	ed fo	r Group 10: Distribution lifting operations	
7			
Group 10 - Fail			
Group 10 - Pass			
•			
K3X Distribution rigging ted	าทาดเ	ues on conductors and structures capable of carr	างเทต

To achieve a PASS the apprentice must demonstrate ALL the following pass

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**\$26**: Select and operate lifting equipment in overhead lines distribution work for



Р

### Group 11: Install distribution support structures and their support mechanisms To achieve a PASS the apprentice must demonstrate ALL the following pass

Frects overhead lines plan		
Lious overrious interplat	nt and apparatus in line with task requirements and	
company installation proc	edures for distribution support structures and their	
support mechanisms and	distribution network excavation. (K35, K36, S31)	
Comments: (what was o	bserved)	
<u>-</u>	nce the Pass descriptors above	
Develop some open-ende	·	
Write down the question	n(s) asked:	
Summary of response to	o question(s):	
Dunida anno marta and	sining the mass are for expending a Fail Dans an	
	aining the reasons for awarding a Fail, Pass or	
Distinction grade award	ed for Group 11: Install distribution support	
	ed for Group 11: Install distribution support	
Distinction grade award	ed for Group 11: Install distribution support	
Distinction grade award	ed for Group 11: Install distribution support	
Distinction grade award	ed for Group 11: Install distribution support	
Distinction grade award	ed for Group 11: Install distribution support	
Distinction grade award structures and their sup	ed for Group 11: Install distribution support	
Distinction grade award structures and their sup  Group 11 - Fail	ed for Group 11: Install distribution support	
Distinction grade award structures and their sup	ed for Group 11: Install distribution support	

**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.



#### Group 12: Install fixed and temporary earthing

descriptors	
Installs circuit main earths, additional (drain) earths, and fixed earthing	
conductors and carries out earth electrode testing in line with task	
requirements and company procedures for earthing installation an earth	
electrode testing. (K41, S32, S33)	
<u>'</u>	
Comments: (what was observed)	
Questions to help evidence the Pass descriptors above	
Develop some open-ended questions	
Write down the question(s) asked:	
Owner, of managed to supply	
Summary of response to question(s):	
Drevide comments explaining the recent for exception a feil Dece or	
Provide comments explaining the reasons for awarding a Fail, Pass or	
Distinction grade awarded for Group 12: Install fixed and temporary earthing	
Group 12 - Fail	
·	
Group 12 - Pass	

To achieve a PASS the apprentice must demonstrate ALL the following pass P

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

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

\$33: Install fixed earthing conductors and carry out earth electrode testing



#### Group 13: Install distribution conductors

To achieve a PASS the apprentice must demonstrate ALL the following pass	Р
descriptors	
Installs or replaces conductors, insulators and ancillary equipment on	
overhead line plant or apparatus including sagging, tensioning and	
termination in line with task requirements and company procedures taking	
account of the types and characteristics of common distribution conductors	
and joints and the causes and consequences of common installation faults.	
(K31, S35)	
Installs cut outs in line with company procedures in compliance with the	
domestic and industrial supply earthing and cut out requirements. (K42, S34)	
	•
Comments: (what was observed)	
Questions to help evidence the Pass descriptors above	
Develop some open-ended questions	
Write down the question(s) asked:	
Summary of response to question(s):	
outilitary of response to question(s).	
Provide comments explaining the reasons for awarding a Fail, Pass or	
Distinction grade awarded for Group 13: Install distribution conductors	
Group 13 - Fail	



**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.



Р

#### Group 14: Install and dismantle pole mounted plant and apparatus

To achieve a PASS the apprentice must demonstrate ALL the following pass

descriptors			
Installs, connects, and co	mmis	sions pole mounted plant and apparatus in line	
with task requirements an	d cor	npany procedures for installation and	
commissioning. (K39, S36	3, S37	7)	
Dismantles pole mounted	plant	and apparatus in line with task requirements	
and company procedures	for d	ismantling. (K39, S36, S37)	
Comments: (what was o	bser	ved)	
<u>-</u>		he Pass descriptors above	
Develop some open-ende			
Write down the question	ı(s) a	sked:	
Summary of response to	o que	estion(s):	
•		g the reasons for awarding a Fail, Pass or	
	ed fo	r Group 14: Install and dismantle pole mount	ed
plant and apparatus			
Group 14 - Fail			
Group 14 - Pass			

**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.

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#### Group 15: Conduct electrical testing

To achieve a PASS the apprentice must demonstrate ALL the following pass	Р
descriptors	
Conducts pre-energisation tests and post-energisation checks in line with task	
requirements and company procedures for low voltage electrical testing.	
(K45, S38, S39, S41)	
Interprets testing procedure results accurately and action required in line with	
company procedures. (K45, S38, S39, S41)	
To achieve a DISTINCTION the apprentice must achieve ALL the PASS	D
descriptors and ALL of the following:descriptors	
Evaluates the test procedure results to determine potential underlying cause.	
Comments: (what was absorved)	
Comments: (what was observed)	
Questions to help evidence the Pass and Distinction descriptors above	
Develop some open-ended questions	
Write down the question(s) asked:	
Summary of response to question(s):	
Provide comments explaining the reasons for awarding a Fail, Pass or	
Distinction grade awarded for Group 15: Conduct electrical testing	
Group 15 - Fail	



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

\$38: Conduct pre-energisation tests.

**S39:** Conduct post-energisation (commissioning) checks. **S41:** Interpret testing procedure results and action required.



#### Group 16: Problem solving and fault-finding

descriptors	
Recognises fault conditions on electrical power circuits, plant and apparatus	
using problem solving and fault-finding techniques including non-invasive	
visual examinations and testing procedures to identify the root cause. (K32,	
S43, S44)	
Replaces components or resolves issues to address faults in line with	
company procedures. (K32, S43, S44)	
Comments: (what was observed)	
Questions to help evidence the Pass descriptors above  Develop some open-ended questions	
Write down the question(s) asked:	
write down the question(s) asked.	
Summary of response to question(s):	
ouninary of response to question(s).	
Provide comments explaining the reasons for awarding a Fail, Pass or	
Distinction grade awarded for Group 16: Problem solving and fault-finding	3
7	
Group 16 - Fail	
Group 16 - Pass	
K22: The symptoms and source of common faults an electrical newer circuits in	

To achieve a PASS the apprentice must demonstrate ALL the following pass

**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.

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#### Group 17: Make and break live connections

descriptors

· · · · · · · · · · · · · · · · · · ·	
Operates switchgear and fuses making and breaking live conductor	
connections and performs testing procedures before and after switching	
operations in line with task requirements and company procedures for low	
voltage operational switching and testing. (K44, S40, S42)	
	1
Comments: (what was observed)	
Questions to help evidence the Pass descriptors above	
Develop some open-ended questions	
Write down the question(s) asked:	
Summary of response to question(s):	
Provide comments explaining the reasons for awarding a Fail, Pass or	
Distinction grade awarded for Group 17: Make and break live connections	i
7	
Group 17 - Fail	
Group 17 - Pass	

To achieve a PASS the apprentice must demonstrate ALL the following pass

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**S42**: Operate switchgear and fuses making and breaking live conductor connections.

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

**\$40**: Perform testing procedures before and after switching operations.



#### **Transmission**

Group 9: Work in proximity to live apparatus

descriptors	
Follows procedures for working in proximity to live apparatus, checks	
overhead line plant and apparatus is safe to access including installing flag	
and check wristlets if required in line with company procedures in compliance	
with working in proximity to live apparatus protocols. (K48, S46, S48)	
Comments: (what was observed)	
Questions to help evidence the Pass descriptors above	
Develop some open-ended questions	
Write down the question(s) asked:	
Summary of response to question(s):	
Provide comments explaining the reasons for awarding a Fail, Pass or	
Distinction grade awarded for Group 9: Work in proximity to live apparatu	ıs
Distinction grade awarded for Group of Work in proximity to into apparatu	•
Group 9 - Fail	
Group 9 - Pass	
K48 Working in provimity to live apparatus protocols	

To achieve a PASS the apprentice must demonstrate ALL the following pass

**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.



#### Group 10:Lifting operations

descriptors			
Selects and operates lifting	ıg equ	uipment in line with task requirement and	
company procedures for t	ransn	nission rigging on conductors and transmission	
towers. (K51, S47)			
			•
Comments: (what was o	bser	ved)	
•		he Pass descriptors above	
Develop some open-ende			
Write down the question	ı(s) a	sked:	
Summary of response to	o que	estion(s):	
-		g the reasons for awarding a Fail, Pass or	
Distinction grade award	ed fo	r Group 10: Lifting operations	
7			
Group 10 - Fail			
Group 10 - Pass			
1.51			

To achieve a PASS the apprentice must demonstrate ALL the following pass

**K51:** Transmission rigging techniques on conductors and transmission towers. **S47**: Select and operate lifting equipment in overhead lines transmission work for example, cranes and winches.



#### Group 11: Install access equipment

descriptors			
	t to m	eet task requirements in line with company	
procedures. (S49)			
Comments: (what was o	bser	ved)	
-		he Pass descriptors above	
Develop some open-ende			
Write down the question	ı(s) a	sked:	
Summary of response to	o que	estion(s):	
Provide comments expl	ainin	g the reasons for awarding a Fail, Pass or	
Distinction grade award	ed fo	r Group 11: Install access equipment	
Group 11 - Fail			
Group 11 - Pass			
C. Cap			

To achieve a PASS the apprentice must demonstrate ALL the following pass

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



#### Group 12: Install temporary earthing

Installs high voltage earthing equipment to meet task requirements and	
manage circulating currents in line with company procedures for high voltage	
temporary earthing. (K52, K53, S50)	
	1
Comments: (what was observed)	
Questions to help evidence the Pass descriptors above	
Develop some open-ended questions	
Write down the question(s) asked:	
Summary of response to question(s):	
Provide comments explaining the reasons for awarding a Fail, Pass or	
Provide comments explaining the reasons for awarding a Fail, Pass or Distinction grade awarded for Group 12: Install temporary earthing	
Distinction grade awarded for Group 12: Install temporary earthing	

To achieve a PASS the apprentice must demonstrate ALL the following pass

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K53 Management of circulating currents.

\$50: Install high voltage temporary earthing equipment.



#### Group 13: Install and test transmission conductors

descriptors	
Installs or replaces conductors, insulators and ancillary equipment on	
overhead line plant or apparatus including sagging, tensioning and	
termination and connects spaces to conductors in line with task requirements	
and company procedures taking account of the types and characteristics of	
common transmission conductors and joints and the causes and	
consequences of common installation faults. (K47, S51, S53)	
Comments: (what was observed)	
Questions to help evidence the Pass descriptors above	
Develop some open-ended questions	
Write down the question(s) asked:	
Summary of response to question(s):	
Provide comments explaining the reasons for awarding a Fail, Pass or	
Distinction grade awarded for Group 13: Install and test transmission	
conductors	
Crown 42 Fail	
Group 13 - Fail	
Group 13 - Pass	

To achieve a PASS the apprentice must demonstrate ALL the following pass

**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.

\$53: Connect spacers to conductors.



#### Group 14: Test compression joints

To achieve a PASS the apprentice must demonstrate ALL the following pass descriptors	Р
Carries out conductor compression jointing and tests compression joints in line with task requirements and company procedures. (S52, S54)	
To achieve a DISTINCTION the apprentice must achieve ALL the PASS descriptors and ALL of the following:descriptors	D
Conductor compression joint tolerance is within set parameters and confirmed right first time.	
Comments: (what was observed)	
Questions to help evidence the Pass and Distinction descriptors above	
Develop some open-ended questions	
Write down the question(s) asked:	
Summary of response to question(s):	
Provide comments explaining the reasons for awarding a Fail, Pass or	
Distinction grade awarded for Group 14: Test compression joints	
Group 14 - Fail	
Group 14 - Pass	
Group 14 - Distinction	

S52: Carry out conductor compression jointing

**\$54**: Test compression joints.

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# Appendix H: Example: Trade Test Technical Interview Assessor Recording Form

Energy & Environment Awards are required to approve employers' trade test technical interviews materials to be used by employer assessors, apprentices and their managers. The following pages include an example trade test technical interview recording form for assessors. This form can be used by employers without adaptation or as a starting point for creating an employer-specific trade test technical interview recording form for employer assessors.



### Power Industry Overhead Linesperson

## Trade Test Technical Interview – Example of Assessor Recording Form

#### Instructions for the employer assessor

#### Delivery

- The interview will last at least 60 minutes
- This is an Employer Assessor led formal interview and not a professional discussion. You must be in full control. Time management is key! If the apprentice veers off track, they need to be reined back in
- You must ask a minimum of four open questions
- Tailor questions to suit individual circumstances
- The purpose of the questions is to cover the following topics:

#### Core

- role and responsibilities
- electrical danger and control
- power engineering electrical plant and apparatus

#### **Distribution maintenance**

conductor types and tensions

#### **Transmission maintenance**

- transmission support structures
- Answers to questions, must be documented.
- If the interview is conducted by video conferencing, timeline each question to the recording. Only log the time for the start of each question asked
- Additional follow-up questions are allowed to seek clarification and to make a judgement against grading descriptor
- Supply brief written notes where each criterion has been met
- Complete the summary report page
- Record a preliminary grade
- Complete the justification for the preliminary grade
- Both the recording and the written notes will be subject to IQA by Energy & Environment Awards



The apprentice may choose to end the assessment method early

- You must ensure the apprentice is fully aware of all assessment requirements
- You cannot suggest or choose to end the assessment methods early, unless in an emergency
- You must ensure the apprentice understands the implications of ending an assessment early if they choose to do so
- You may suggest the assessment continues

At the end of the interview -Thank the apprentice for their time and wish them good luck



Name of Apprentice			
☐ Apprentice ID checked			
Option			
Are Reasonable Adjustments			
required? Yes □ No □			
Please give details			
Location of Technical Interview			
Full Name of Employer Assessor			
Date of Technical Interview			
Start Time			
End Time			
Apprentice asked to end the assessment early (check the box)			
Employer Assessor suggested assessment continues (check the box)			
Grading Fail - does not meet pass criteria			
To achieve a PASS the apprentice the core and their option	must	demonstrate ALL the	PASS descriptors for
Preliminary Grade awarded (Please tick the relevant box)		Pass	Fail
Employer Assessor Justification fo	or Pre	liminary Grade award	ed:



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Trade Test Technical Interview Summary	Pass
Core	
Group 1: Role and responsibilities	
K4 K5 S22 B4	
Group 2: Electrical danger - control and first aid	
K8 K11 S9	
Group 3: Power engineering electrical plant and apparatus	П
K30	
Distribution	
Group 4: Conductor types and tensions	
K37	
Transmission	
Group 4: Transmission support structures	
K50	



#### Introduction

At the start of the trade test the Employer Assessor will:

- Introduce themselves
- State their role
- State the date of the interview
- Request and confirm ID from the apprentice
- Provide apprentice with information on the format of the technical interview, including the timescales they will be working to

#### The apprentice will:

- Confirm their full name
- Confirm their date of birth
- Confirm they are prepared for the interview; and confirm they can continue with the interview

#### Important points to inform the apprentice

- Please do not judge anything by the notes being taken, nor infer anything positive or negative from how long the interview lasts
- We are not allowed to give you feedback at any point. So unfortunately, we will not be able to give you any indication of your grade and whether you have passed or failed at the end
- Please ensure that your mobile off or somewhere where you will not be interrupted during the interview
- Sign placed on the door of the interview room. Interview in progress 'Do not disturb'
- This interview will be fully recorded for the purpose of audit and quality assurance



#### Group 1: Role and responsibilities

To achieve a PASS the	apprentice must demonstrate ALL the following pass	Р
descriptors		
	n overhead linesperson including their limits of they report or escalate issues. (K4, S22, B4)	
organisational requirem	pond and adapt to work demands in line with ents, with reference to different teams and functions and how they work together. (K4, S22, B4)	
Explains the responsibi	lities of persons as defined in the industry standard	
safety rules: supervising	g a working party, competent persons, and	
authorisation roles and	responsibilities in relation to working under safety	
documentation. (K5)		
Timeline reference:	Record time if interview conducted by video conferen	cing
Summary of response		ada.
Provide comments ex	e to question(s):  plaining the reasons for awarding a Fail or Pass gr Role and responsibilities	ade
Provide comments ex	plaining the reasons for awarding a Fail or Pass gr	ade
Provide comments ex	plaining the reasons for awarding a Fail or Pass gr	ade
Provide comments ex	plaining the reasons for awarding a Fail or Pass gr	ade

**K4:** Overhead linesperson's role and responsibilities. Limitations of role and escalation procedures. Different teams and functions involved in operations: how they work together.



**K5:** Responsibilities of persons as defined in industry standard safety rules: supervising a working party, competent persons. Authorisation roles and responsibilities. Safety documentation.

**S22:** Report or escalate issues outside limits of responsibility.

**B4:** Respond and adapt to work demands. For example, adapt working methods to reflect changes in working environment, take initiative -making on the spot decisions, re-prioritise workloads to react to emergency response and to fault scenarios.



#### Group 2: Electrical danger - control and first aid

descriptors				
Explains the dangers of electricity and how an electric shock can be received				
including direct contact, induced (impressed) voltage, and arcing. Outlines				
electric shock emergend	y proc	redures in line with company procedures. (K8)		
Describes how they wou	ıld res	pond in the event of a first aid emergency, with		
reference to their emerg	ency f	irst aid training and responsibilities and		
measures they would ta	ke to a	void electrical risk in line with company		
procedures. (K11, S9)				
Timeline reference:	Reco	rd time if interview conducted by video conference	ina	
	7 (000)	a inne ii interview contacted by video conterent	<u>9</u>	
Write down the questi	on(s) a	asked:		
Summary of response	to que	estion(s):		
		g the reasons for awarding a Fail or Pass gra	de	
awarded for Group 2:	⊨lectri	cal danger - control and first aid		
7				
0 0 5 1	1			
Group 2 - Fail				
Group 2 - Pass				

To achieve a PASS the apprentice must demonstrate ALL the following pass

**K8:** The dangers of electricity and how an electric shock can be received: direct contact, induced (impressed) voltage, and arcing. Electric shock emergency procedures.

**K11:** Emergency First Aid.

**S9:** Respond in the event of an emergency first aid situation including situations where there is electrical risk.



#### Group 3: Power engineering electrical plant and apparatus

To achieve a DASS the apprentice must demonstrate ALL the following pass

descriptors	apprentice must demonstrate ALL the following pass	•
Outlines power enginee	ring electrical plant and apparatus, the properties and	
purpose of transformers	s, switchgear, earthing devices, voltage control and	
automated equipment.	(K30)	
Timeline reference:	Record time if interview conducted by video conference	ina
Timeline reference.	Record time if interview conducted by video conference	irig
Write down the questi	on(s) asked:	
Summary of response	to question(s):	
Provide comments ex	plaining the reasons for awarding a Fail, Pass or	
Distinction grade awa	rded for Group 3: Power engineering electrical power	er
plant and apparatus		
Group 3 - Fail		

**K30:** Power engineering electrical plant and apparatus, the properties and purpose of transformers, switchgear, earthing devices, voltage control and automated equipment.



#### Distribution

Group 4: Conductor types and tensions

To achieve a PASS the	apprentice must demonstrate ALL the following pass	Р
descriptors		
Explains different distrib	oution conductor types and tensions including all	
aluminium alloy conduc	tor (AAAC) 30-175mm, Cross-linked polyethylene	
(XLPE), low voltage ear	thing, domestic and industrial service cables,	
cadmium and copper co	onductors 16-150mm. (K37)	
Timeline reference:	Record time if interview conducted by video conference	ing
Write down the questi	on(s) asked:	
Summary of response	to question(s):	
Provide comments ex	plaining the reasons for awarding a Fail or Pass gra	do
	Conductor types and tensions	ue
-		
Group 4 - Fail		
Group 4 - Pass		
K37: Distribution conduc	tor types, construction, features and tensioning of: all	

**K37:** Distribution conductor types, construction, features and tensioning of: all aluminium alloy conductor (AAAC) 30-175mm, Cross-linked polyethylene (XLPE), low voltage earthing, domestic and industrial service cables, cadmium and copper conductors 16-150mm.



#### **Transmission**

Group 4: Transmission support structures

To achieve a PASS the apprentice must demonstrate ALL the following pass			Р
descriptors			
Explains transmission support structures' construction methods and			
requirements for support mechanisms and temporary stays. (K50)			
Timeline reference:	Record time if interview conducted by video conferencing		
	Theodra inne in interview conducted by video connectioning		
Write down the question(s) asked:			
Summary of response to question(s):			
Provide comments explaining the reasons for awarding a Fail or Pass grade			
awarded for Group 4: Transmission support structures			
Croup 4 Foil			
Group 4 - Fail			
Group 4 - Pass			
VEO. Transmission supp	art atriu	sturas construction methods. Dequirements for	

**K50:** Transmission support structures construction methods. Requirements for support mechanisms and temporary stays.



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