

Skills for a greener world

EEA Level 3 End-point Assessment for Maintenance and Operations Engineering Technician (Wind Turbine)

Supporting Documents

QAN 610/6007/0 ST0154 V1.4



Supporting Documents for

EEA Level 3 End-point Assessment for Maintenance and Operations Engineering Technician (Wind Turbine)

QAN	61	0/60	07/0	V1	.4
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Updates to the supporting documents

Since the first publication of Energy & Environment Awards Maintenance and Operations Engineering Technician Supporting Documents Wind Turbine, the following updates have been made.

Version	Date first published	Section updated	Page(s)
v2.0	August 2025	Rebranded	All
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 and Assessment Plan Version: ST0154/V1.4)

Apprentice's name:	Apprentice's job title:
Name of Employer:	Name of Training provider:
Employer representatives present:	Training provider representatives present:
Apprenticeship start date:	Apprenticeship on-programme end date:
Gateway meeting date:	
Has the apprentice taken any part of the end-point assessment for this	Y/N
apprenticeship standard with any	
other End Point Assessment	
Organisation?	
If "Yes" please give details:	



Apprentice's details

Eligibility requirements:

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 Level 2 English		
Achieved Level 2 Maths		
Satisfactory completion of the formal training plan agreed with apprentice by the employer		
Compiled and submitted a portfolio of evidence, on which the technical interview will be based on		

Gateway Eligibility Declaration

The apprentice, the employer and the training provider must sign this form to confirm that they understand and agree to the following:

- 1. The apprentice has completed the required on-programme elements of the apprenticeship and is ready for end-point assessment with Energy & Environment Awards.
- 2. The apprentice will only submit their own work as part of end-point assessment.
- 3. All parties agree that end-point assessment evidence may be recorded and stored by Energy & Environment Awards for quality assurance purposes.
- 4. The apprentice has been on-programme for a minimum duration of 365 days.
- 5. The apprentice has achieved English and maths Level 2 as detailed in this document.
- 6. The apprentice satisfactorily completed a formal training plan agreed by the employer.
- 7. The apprentice has produced compiled and submitted a portfolio of evidence, on which the technical interview will be based on.
- 8. 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.
- 9. The apprentice has been directed to Energy & Environment Awards Appeals Policy and Complaints Policy.
- 10. The employer/training provider has given Energy & Environment Awards at least three months' notice of requesting this EPA for this apprentice.
- 11. 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 & Environmen	t Awards use only:
Energy & Environment Awards Sign off:	
Comments/actions:	



Appendix C: Practice Knowledge Assessments: Wind Turbine



Level: 3

Maintenance and Operations Engineering Technician

Pathway: Wind Turbine

Paper Code: Practice Paper

This examination consists of 30 multiple-choice questions.

The Pass mark is 18 correct answers.

The Merit mark is 23 correct answers.

A merk of 26 or more is a Distinction.

The duration of this examination is 45 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:

This paper must be returned to Energy & Environment Awards with the apprentice answer sheets.



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

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Question 1

On what type of installation would a technician fit this design of washer?

Possible answers		
a)	High corrosion	
b)	High temperature	
c)	High vibration	
d)	High pressure	



Question 2

Question 3

c)

d)

When checking the pressure of a system the maintenance schedule stipulates that the system pressure should be 10 bar with a tolerance of +/- 0.05 bar, what are the minimum and maximum acceptable pressures?

Possibl	Possible answers	
a)	9.95 to 10.05 bar	
b)	9.5 to 10.5 bar	
c)	9.05 to 10.5 bar	
d)	9.005 to 10.005 bar	

Safety critical equipment should be maintained:		
Pos	Possible answers	
а)	every twelve months
b)	more frequently than non-safety critical equipment

less frequently than non-safety critical equipment

at the same period as safety non-critical equipment



Question 4		
Which s	Which statement best describes what is meant by the terminology "specification"?	
Possible	Possible answers	
a)	The capacity to endure continuous force	
b)	The standard when measured against another object of similar design	
c)	Detailed description of the design and materials of an object	
d)	The specified point beyond which certification is invalid	

Question 5		
What type of maintenance is applied when something stops working?		
Possible answers		
a)	Planned	
b)	Preventative	
c)	Corrective	
d)	Shutdown	

Question 6	
What do the initials IP followed by 2 numbers refer to when seen on a piece of equipment?	
Possible answers	
a)	Internal pressure
b)	Integrity protection
c)	Ingress protection
d)	Increased pressure



Question 7	
Which of the following is commonly classed as safety critical?	
Possible answers	
a)	Control valve
b)	Fuse
c)	Steam trap
d)	Drain valve

Question 8		
What does the coloured tag on a piece of rigging equipment mean?		
Possible answers		
a)	Certification period	
b)	Safe working load	
c)	Maximum working load	
d)	Safe to use	

Question 9	
When seen on site, what does a green safety sign signify?	
Possible answers	
a)	Mandatory
b)	Prohibited
c)	Information
d)	Warning



Questic	Question 10	
What document should be fixed to a scaffold before a technician uses it?		
Possible answers		
a)	Risk assessment	
b)	Safety certificate	
c)	Approved Scafftag	
d)	Permit to work	

Question 11

Looking at the image provided and taking into consideration risk, which task would a technician say is low probability and low in impact?

		, ,	'	
Po	Possible answers		A.	B. •
	a)	A		
	b)	В	C.	Δ <u>λ</u> λλ Δ <u>λ</u> λλλλ
7	c)	С	<u>*</u>	
	d)	D		ΔΛΛ



Questio	Question 12		
When personal protection equipment is identified on the work control document,			
which of the following statements is correct?			
Possible answers			
a)	PPE is recommended		
b)	PPE is available		
c)	PPE is good practice		
d)	PPE is mandatory		

Question 13	
In accordance with HSE regulations, how would a technician know if a substance	
· ·	arded as hazardous?
Possible answers	
a)	The container will be coloured red
b)	It will be contained in a glass receptacle
c)	It will have a label identifying the hazard
d)	It will give off a strong odour

Questio	Question 14	
According to the Confined Space Regulations 1997, which of the following locations is not regarded as a confined space?		
Possible answers		
a)	Storage tank	
b)	Termination cabinet	
c)	Floor void	
d)	Pipe trench	

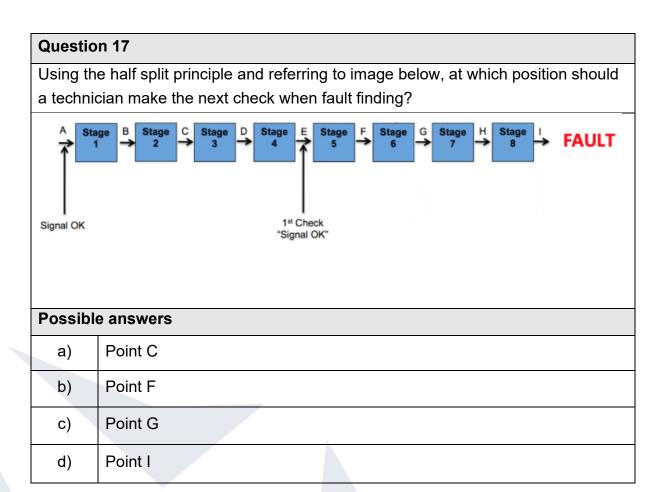


Question 15	
In accordance with HSE guidelines, isolations can only be applied by:	
Possible answers	
a)	competent people
b)	training and authorised people
c)	skilled people
d)	experienced people

Question 16	
Which manual handling statement is true?	
Possible answers	
a)	Correct manual handling prevents all accidents
b)	Correct manual handling prevents damage to equipment
c)	Correct manual handling reduces the risk of human injury
d)	Correct manual handling should only be applied in the workplace

[Turn to the next page for question 17]





Question 18		
What regulation provides guidance on the use of handheld tools?		
Possible answers		
a)	PUWER	
b)	COMAR	
c)	LOLER	
d)	СОЅНН	



Question 19

What is being measured in this image?

Possible answers		
a)	Temperature	
b)	Vibration	
c)	Pressure	
d)	Speed	



Question 20

When seen on a British Standard Piping and Instrumentation drawing, what does this symbol represent?

uno cynns	sor represent:					
Possible	answers					
a)	Electrical signal					
b)	Pneumatic signal	-#	#	#	-#-	
c)	Hydraulic signal					
d)	Instrument signal					

[Turn to the next page for question 21]



Question 21

What type of maintenance can be applied to check the long-term performance of equipment to identify problems before they occur?

Possible answers		
a)	Preventative	
b)	Risk based	
c)	Condition based	
d)	Corrective	

Question 22

Where would you commonly find the transformer on a sub megawatt (MW) wind

turbine?	turbine?		
Possibl	Possible answers		
a)	In the hub		
b)	At the base		
c)	In the nacelle		
d)	In the rotor		

Questio	Question 23		
What does RPM stand for when seen on a gearbox?			
Possibl	Possible answers		
a)	Revolutions per minute		
b)	Revolutions per metre		
c)	Rotations per millimetre		
d)	Rotational pressure monitor		



Questio	Question 24		
0.5 of kilowatt is equal to:			
Possibl	Possible answers		
a)	5000 Watts		
b)	500 Watts		
c)	50 Watts		
d)	5 Watts		

Questio	Question 25 What is the purpose of the gearbox in ta wind turbine?	
What is		
Possible	Possible answers	
a)	a) Increase rotational speed to the blades	
b)	Increase torque to the blades	
c)) Increase rotational speed to the generator	
d)	Increase torque to the generator	

Questio	n 26					
What is t	What is the name of the wind turbine component indicated by the arrow?					
Possible	e answers					
a)	Nacelle					
b)	Rotor					
c)	Transit					
d)	Hub					



Question 27

Assume a feedback signal range between 4–20 mA. A temperature transmitter with a range of 0-400 degree C has a feedback signal of 8mA.

Assuming the transmitter is calibrated correctly, what is the actual temperature reading?

Possibl	Possible answers	
a)	150 degrees C	
b)	100 degrees C	
c)	75 degrees C	
d)	50 degrees C	

Question 28

What is the most likely cause of high vibration found at the coupling of the gearbox and electric generator?

	9			
Possible answers				
a)	High wind			
b)	Bearing failure			
c)	High temperature			
d)	Faulty controller			

[Turn to the next page for question 29]



Questio	Question 29		
Blue or brown discolouration on a bearing often indicates what problem?			
Possible	Possible answers		
a)	Corrosion		
b)	Erosion		
c)	Mechanical damage		
d)	Bearing failure		

Questic	Question 30		
The power available in a wind of speed V is proportional to:			
Possibl	Possible answers		
a)	1 ÷ V		
b)	0.5 × V		
c)	V×V		
d)	V×V×V		

End of Questions



Practice Knowledge Assessment

Wind Turbine - Answer scheme

Question	Answer
1	С
2	Α
3	В
4	С
5	С
6	С
7	В
8	Α
9	С
10	С
11	Α
12	D
13	С
14	В
15	В

С					
С					
Α					
В					
В					
С					
В					
Α					
В					
С					
D					
В					
В					
D					
D					



SAMPLE ANSWER SHEET



Candidate ID	Attempt
Last Name	
First Name	
Exam Date	
Centre Name	
Centre Number	Management of the second of th
MARKING INSTRUCTIONS	
Answers should be completed us	sing a HB pencil,
○ ○ ○ ● ANSWER COMPL	ETED CORRECTLY
Surrence hour man employment with a	r examination sheet. These will not be recorded
O O O DO NOT partially s	
○ ○ ○ ⊗ DO NOT use ticks	
O O O DO NOT use circle	
⊙ ⊙ ● ● DO NOT shade ov	er more than one circle.
1 0 0 0 0	21 0 0 0 0
2 0 0 0 0	22 0 0 0 0
3 0 0 0 0	23 🛇 🗇 🔘 🔘
4 0 0 0 0	24 0 0 0 0
5 0 0 0 0	25 🛇 🗇 🔘 🔘
6 0 0 0 0	26 🛇 🗇 🔘 🔘
7 0 0 0 0	27 🛇 🗇 🔘 🔘
8 0 0 0 0	28 🔿 🗇 🔘 🔘
9 0 0 0 0	29 🛇 🗇 🔘 🔘
10 0 0 0 0	30 🔿 🗇 🗇
11 0 0 0 0	
12 0 0 0 0	
13 0 0 0 0	
14 0 0 0 0	
15 0 0 0 0	
16 0 0 0 0	
17 0 0 0 0	
18 🛇 🗇 🔘 🔘	
19 0 0 0 0	
20 🔿 🗇 🔿	



Appendix D - Practical Observation and Planning Form

The practical observation must be designed to meet the requirements of the Maintenance and Operations Engineering Technician standard.

- The apprentice will complete a practical observation during which they will be asked questions by the assessor to confirm their understanding of the rationale for actions taken and choices made during the practical observation
- The content of this practical observation will relate to the specific role they are working towards
- The duration of this activity will typically be no longer than one day and the
 actual time allowed will be based on the comparable time that an industry
 competent worker would take to achieve successful task(s) completion
- The employer/training provider must devise a practical observation task(s) sufficiently complex to allow the apprentice to demonstrate the required knowledge and skills

Note that the apprentice is only required to demonstrate the main specialist specific skill covered by the practical, and the observation task must be chosen carefully to ensure that the apprentice has opportunity to cover all aspects of the skill.

The activities will need to be able to provide the evidence identified in the checklist in the form below.

Energy & Environment Awards must review the employer/training provider's practical assessment design. To do this complete the 'Level 3 Practical Observation and Planning Form' and submit to the Service Delivery team, for review 1 month before the start of the end-point assessment.



Level 3 Practical Observation and Planning Form

Fundamental and alte	
Employer name and site address	
Training provider (if	
applicable)	
Standard	Maintenance and Operations Engineering
	Technician
Pathway	Wind Turbine
Level	3
Location of practical	
Contact Details:	
Employer/training provider	
representative, email address	
and contact number	
overseeing the setup of the	
competency test (documents	
and site).	
Energy & Environment	
Awards Date of review:	
Description of the proposed	complex tack(c):
Description of the proposed (complex task(s).
Special requirements (for exa	ample: access arrangements/PPE):
Equipment/tools required:	Resources required:



Practical Observation Checklist

This checklist will assist the employer and/or training provider with planning the activity. Please confirm all required elements are covered:

Core Skills	Covered on activity
S1 Comply with industry health, safety and environmental working practices and regulations	
S2 Communicate with and provide information to stakeholders in line with personal role and responsibilities	
S3 Prepare work areas to undertake work related activities and reinstate those areas after the completion of the work-related activities	
S4 Assess and test the performance and condition of plant and equipment	
S5 Locate, and rectify faults on plant and equipment	
S6 Read, understand and interpret information and work in compliance with technical specifications and supporting documentation	
S7 Inspect and maintain appropriate plant and equipment to meet operational requirements	
S8 Communicate, handover and confirm that the appropriate engineering process has been completed to specification	
Core Behaviours	Covered on activity
B1 Health and Safety - Follows health and safety policies and procedures and be prepared to challenge unsafe behaviour using appropriate techniques to ensure the protection of people and property when working alone and/or with appropriate supervision	
B2 Quality focused - Ensures that work achieves quality standard both occupationally and personally	
B3 Working with others - Has the ability to work well with people from different disciplines, backgrounds and expertise to accomplish an activity safely and on time	
B4 Interpersonal skills - Gets along well with others and takes into account their needs and concerns	



B6 Sustainability and ethical behaviour - Behaves ethically and undertakes work in a way that contributes to sustainable development	
B7 Risk awareness - Demonstrates high concentration, the desire to reduce risks, ability to be compliant and awareness of change, through regular monitoring and checking of information	
PLUS select the MAIN Specialist Skill covered by the practical	Covered on activity
Pathway: Wind Turbine Specialist Skills	
WT1 Install, assemble, commission and dismantle wind turbine plant and equipment, which will include pitch systems, yaw systems, switchgear, control systems to agreed specifications	
WT2 Carry out planned, unplanned and preventative maintenance procedures on wind turbine plant and equipment including mechanical drive systems	
WT3 Replace, and/or remove components in wind turbine plant and equipment and ensure its return to operational condition	
WT4 Diagnose and determine the cause of faults in wind turbine plant and equipment	
Estimated total duration of practical (must be a minimum of 4 hours)	
Remember:	
The specific detail of the tasks to be undertaken should b	e kept confidential
from the apprentices	
 You will require differing tasks where you have more than be assessed 	n one apprentice to
Practical Task: Include relevant photographs to illustrate task(s)	



Energy & Environment Awards Office	e use only
Date received	
Date signed off	



Appendix E: Practice Practical Observation Template

This document is for use by the person from the employer/training provider playing the role of the assessor during the practice practical observation. It is designed to help replicate the live assessment experience and to enable feedback to be provided to the apprentice.

Full Name of Apprentice	
Location(s) of Practice Practical Observation	
Full Name of Assessor	
Date of Practice Practical Observation	
Start Time	
End Time	
Assessor - Additional comments:	

			Grade
Please indicate the apprentice's practic	e practio	cal observation	
grade (F/P/M/D):			

Please Note:

Pass: Each criteria must be met to achieve a pass.

Merit or Distinction: All Pass criteria must be achieved PLUS a minimum number of merit and distinction as described in Section 3 in this specification.

Fail: The apprentice does not demonstrate the pass criteria.



		Distinction Criteria – Minimum two to		
Demonstrate a clear understanding of their own health, safety and environmental responsibilities and that of others Comply with the required health, safety and environmental working practices and regulations Conduct a suitable risk assessment and proactively identify workplace hazards Inspect and wear the correct personal protective equipment (PPE) required to carry out the activity Inform other relevant parties of	fety a	 Merit Criteria – Minimum two to be met Demonstrate a deeper understanding of the health, safety and environmental implications of the work e.g. potential effect of failure to comply, environmental, social, financial, company impact Take a lead role in managing the site safety of self and others Consistently demonstrate compliance with safety requirements and make suggestions to reduce risks Identify poor/bad practice in relation to work activities and address the situation 	 Distinction Criteria – Minimum two be met Demonstrate exemplary health, safety and environmental knowledge and performance throughout the activity Identify health, safety and environmental deficiencies and implement appropriate solutions Challenge unsafe behaviour/ practices using appropriate techniques Pre-empt risks prior to task commencement and puts actions in place to prevent them occurring Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to improve safety standards 	



Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Crit	eria – Minimu	m two to
		met	be met		
 Comply with and apply safe systems of work and maintain a safe working environment Inspect and use the appropriate tools and equipment Regularly re-assess the site conditions and take action when necessary to maintain site safety Check to ensure the site is left in a safe/secure condition for others 					
Assessor must ask the following standardised questions. Questions Develop some open ended question	าร	Assessor must record all additional of for clarification and the responses properties including examples.		Recording timeline.	Mark awarded



S2 Communicate with and provide information to stakeholders in line with personal role and responsibilities						
Pass Criteria – All to be met Merit Criteria – Minimum two to be		Distinction Criteria – Minimum two to				
		met		be met		
 Read and correctly interpret a 		Demonstrate a detailed		Demonstrate their ability to		
range of technical information		knowledge of the range and		effectively communicate		
provided to plan and conduct		purpose of the technical		technical information across a		
the work		information available		wide range of stakeholders e.g.		
Demonstrate a clear		Identify inaccuracies/deficiencies		colleagues, management,		
understanding of the purpose		in the technical information		briefings/meetings, external		
and use of the technical		provided and resolve/report the		clients		
information provided for the		situation		Consult and involve team		
work		Challenge in a professional		members and/or other relevant		
Use and refer to the technical		manner any areas of concern to		persons to achieve greater		
information provided to		clarify understanding		understanding and improved		
check/confirm the work		Identify/suggest methods of		performance		
conducted meets the required		improving the system/use of		Demonstrate the ability to build		
company		information		positive relationships and		
standards/specifications				actively address conflict with		
Where necessary,				positive outcomes		
question/clarify any						
information which is not clearly						
understood						
Complete any technical or	П					
supporting documentation in						



S2 Communicate with and provide inform	mation to stakeholders in line with persona	al role and responsil	bilities	
Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met		
line with company policies/procedures				
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.		Recording timeline.	Mark awarded.
Questions Develop some open ended questions				

Pass Criteria – All to be met		erit Criteria – Minimum two to be	Distinction Criteria – Minimum two to		
	m	et		be met	
	•	Take a lead role in the		Demonstrate a deeper	
		preparation of the work area		understanding of the	
		proactively informing others on		implications of good and poor	
		matters which affect them		work preparation. e.g. In terms	
	•	Produce a detailed work plan to		of cost, time, value, company	
Ш		support the organisation of the		reputation etc	
		m	 Take a lead role in the preparation of the work area proactively informing others on matters which affect them Produce a detailed work plan to 	 Take a lead role in the preparation of the work area proactively informing others on matters which affect them Produce a detailed work plan to 	 Take a lead role in the preparation of the work area proactively informing others on matters which affect them Produce a detailed work plan to be met Demonstrate a deeper understanding of the implications of good and poor work preparation. e.g. In terms of cost, time, value, company

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S3 Prepare work areas to undertake work related activities and reinstate those areas after the completion of the work-related activities

activities			
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to
		met	be met
worked on in line with		work, including measures to deal	Demonstrate the ability to take a
company policies/procedures		with contingencies	lead in accepting additional
Identify and implement any		Demonstrate their ability to	responsibility and autonomy to
special precautions required		develop positive professional	achieve/improve the work being
by the work activity or		relationships with individuals to	undertaken
environment, where required		support the work activity	
Maintain good housekeeping		Make valid suggestions/	
practices and a safe working		recommendations to improve the	
environment throughout the		planning/preparation of the work	
activity		activity	
Store tools, equipment,	_		
materials in a suitable/secure			
position and dispose of waste			
products in line with company			
policies and Health Safety and			
Environmental regulations			
Reinstate the work area to			
ensure it is left in a safe and			
secure condition e.g. locks,			
notices, documentation			



Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Crit be met	eria – Minimu	m two to
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.		Recording timeline.	Mark awarded
Questions				

S4 Assess and test the performance and condition of plant and equipment					
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to		
		met		be met	
Demonstrate a clear understanding of the company		Demonstrate a detailed technical knowledge of the range of tests	П	Demonstrate a deeper technical understanding of testing	
polices/procedures for the		available and their specific		procedures and the analysis of	
assessment and testing of plant and equipment to be		purposeTake a pro-active, leading role in		results. e.g. testing parameters, performance indicators etc.	
worked on Demonstrate a clear		the testing activity providing clear guidance on the results		Demonstrate the ability to take a lead in accepting additional	
understanding of the types		obtained		responsibility and autonomy to	
and purpose of testing				achieve/improve the work being undertaken	



Questions				
Assessor must ask the following standardised questions. Assessor must record all additional for clarification and the responses apprentice including examples.	_	Recording timeline.	Mark award	led.
 Procedures for the plant and equipment to be worked on Assess and test the plant/ equipment to be worked on in line with company procedures Use the correct tools, equipment and techniques to conduct testing in line with company procedures Accurately interpret the results of the tests conducted Record/report the results of the testing in line with company procedures 				



Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met		
Demonstrate a clear understanding of their role and responsibilities for the fault location and rectification activity to be undertaken	 Demonstrate a detailed understanding of the theory and principles of fault location and rectification operations Demonstrate a detailed 	Demonstrate deeper technical knowledge of fault location and fault prevention e.g. costs, lost time, sustainability of equipment, company reputation		
explanation of the company's fault location methods, processes and/or procedures	understanding of cause and effect of faults and preventative measures • Pro-actively works with others to	 Identify and implement tangible changes that improve the efficiency of the work being conducted 		
Competently use the correct tools, equipment and methods to locate the rectify the fault/s	identify areas for improvement and follows through on agreed implementation	 Identify and take action to report or deal with issues of nonconformity/compliance 	[
in a timely manner Conduct the work in compliance with all relevant regulatory requirements and company policies and procedures	Make recommendations/ suggestions to improve the location/rectification work activity	Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the work being undertaken	[
Complete the required tests/checks to confirm the				



S5 Locate, and rectify faults on plan	nt and	equipment				
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Crite	ria – Minimu	m two to	,
		met	be met			
fault rectification has been						
successful						
Record the results/outcomes						
of rectification work in line with						
company requirements						
Assessor must ask the following standardised questions.		Assessor must record all additional of for clarification and the responses prapprentice including examples.	•	Recording timeline.	Mark awarde	d.
Questions						
Develop some open ended question	15					

S	Read, understand and interpret documentation	inforn	nation and	d work in co	ompliance with tecl	hnic	al specifications and supporting
Pa	ss Criteria – All to be met		Merit Cr	iteria – Mir	nimum two to be		Distinction Criteria – Minimum two to
			met				be met
•	Read and correctly interpret a		• Demo	onstrate a c	letailed		
	range of technical information		know	ledge of the	e range and		
	provided to plan and conduct		purpo	se of the te	echnical		
	the work		inforr	nation avail	lable		



S6 Read, understand and interpret information and work in compliance with technical specifications and supporting documentation Pass Criteria - All to be met Merit Criteria – Minimum two to be Distinction Criteria – Minimum two to met be met Demonstrate a clear Identify inaccuracies/deficiencies in the technical information understanding of the purpose and use of the technical provided and resolve/report the information provided for the situation work Challenge in a professional Use and refer to the technical manner any areas of concern to clarify understanding information provided to check/confirm the work Identify/suggest methods of conducted meets the required improving the system/use of information company standards/specifications Where necessary, question/clarify any information which is not clearly understood Complete any technical or supporting documentation in line with company

policies/procedures



S6 Read, understand and interpret info documentation	rmation and work in compliance with technical specifications a	nd supporting	
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.
Questions Develop some open ended questions			

S7 Inspect and maintain appropriate plant and equipment to meet operational requirements						
Pass Criteria – All to be met		M	erit Criteria – Minimum two to be		Distinction Criteria – Minimum two to	
		m	et		be met	
Demonstrate a clear		•	Demonstrate a detailed technical		Demonstrate a deeper technical	
understanding of the company			knowledge of the range of		understanding of	
polices/procedures for the			required inspections and		inspection/maintenance	
inspection of plant and			maintenance procedures and		operations. e.g. In terms of cost,	
equipment to be worked on			their specific purpose		time, environmental impact,	
Demonstrate a clear		•	Pro-actively works with others to		sustainability etc	
understanding of the company	Ш		identify areas for improvement		Demonstrate the ability to take a	
polices/procedures in relation			and follows through on agreed		lead in accepting additional	
to achieving the safe isolation			implementation		responsibility and autonomy to	
of equipment from relevant		•	Demonstrate the ability to		achieve/improve the work being	
sources of energy			develop positive professional		undertaken	

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Pass Criteria – All to be met		Merit Criteria – Minimum two to be met		Distinction Crit	eria – Minimu	m two to
 Identify and inspect the plant/equipment to be worked on in line with company procedures Correctly use tools, equipment and techniques to achieve the quality standards required by company policies/procedures Demonstrate consistent application of policies and procedures during the work activity Record/report the results of the inspection in line with company procedures 		relationships with individuals to support the work activity Identify areas for work improvement and implement actions to improve work efficiencies				
Assessor must ask the following standardised questions. Questions Develop some open ended question	75	Assessor must record all additional for clarification and the responses apprentice including examples.	•		Recording timeline.	Mark awarded



Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met		
 Demonstrate a clear understanding of their role and responsibilities in returning the system/equipment back to operational service Provide an accurate technical explanation of the company's handover procedure Complete the required checks/tests to confirm the equipment meets the company operational requirements for handover Conduct the handover in compliance with all relevant policies and procedures Clearly communicate the details of the handover 	 Demonstrate a detailed understanding of the factors which can support and influence a smooth handover of equipment Take a pro-active lead in effectively communicating the detail of handover arrangements with stakeholders Demonstrate their ability to develop positive professional relationships with individuals to support handover process Confidently lead the handover process taking charge of the operation and resolving any issues within their role responsibility 		 Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the handover process Consult and involve team members and/or other relevant persons to achieve greater understanding and improved performance Demonstrate the ability to build positive relationships and actively address conflict/resolve problems with positive outcomes Demonstrate their ability to effectively communicate technical information across a wide range of stakeholders e.g. 	



S8 Communicate, handover and co	nfirm	that the appropriate engineering proce	ss h	as been complete	ed to specificat	ion	
Pass Criteria – All to be met		Merit Criteria – Minimum two to be Distinction Crite			eria – Minimu	m two	to
		met		be met			
requirements to the relevant		Adapts the method and style of		briefings/mee	etings, external		
parties		communications to changing		clients			
Complete all relevant		circumstances and need					
reporting/recording							
documentation in line with							
company procedures	П						
Leave the work area in a							
safe/secure condition for							
others							
Assessor must ask the following standardised questions.		Assessor must record all additional for clarification and the responses apprentice including examples.	•		Recording timeline.	Mark awar	
Questions							
Develop some open ended question	าร						



Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Crit	eria – Minimu	m two to
		met	be met		
 Follows health and safety 					
policies and procedures and					
be prepared to challenge					
unsafe behaviour using					
appropriate techniques to					
ensure the protection of					
people and property when					
working alone and/or with					
appropriate supervision					
Assessor must ask the following		Assessor must record all additional que	estions asked	Recording	Mark
standardised questions.		for clarification and the responses provapprentice including examples.		timeline.	awarded.
Questions					
Develop some open ended question	S				



B2 Quality focused					
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met		
Ensures that work achieves quality standard both occupationally and personally					
Assessor must ask the following standardised questions.		Assessor must record all additional que for clarification and the responses pro apprentice including examples.		Recording timeline.	Mark awarded.
Questions Develop some open ended question	S				

B3 Working with others							
Pass Criteria – All to be met		Merit Criteria - Minimu	m two to be	Distinction Criteria – Minimum two to			
		met		be met			
Has the ability to work well							
with people from different							
disciplines, backgrounds and							
expertise to accomplish an							
activity safely and on time							



B3 Working with others							
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.				
Questions							
Develop some open ended questions							

B4 Interpersonal skills						
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum tw be met			
Gets along well with others						
and takes into account their						
needs and concerns						
Assessor must ask the following standardised questions.		Assessor must record all additional que for clarification and the responses proapprentice including examples.		Recording timeline.	Mark awarded.	
Questions						
Develop some open ended questio	ns					



B6 Sustainability and ethical behave	iour				
Pass Criteria – All to be met			Distinction Criteria – Minimum two to be met		
Behaves ethically and undertakes work in a way that contributes to sustainable development					
Assessor must ask the following standardised questions.		Assessor must record all additional que for clarification and the responses pro apprentice including examples.		Recording timeline.	Mark awarded.
Questions Develop some open ended question	ns				

B7 Risk awareness							
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met				
Demonstrates high concentration, the desire to reduce risks, ability to be compliant and awareness of change, through regular monitoring and checking of information							



B7 Risk awareness							
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.				
Questions Develop some open ended questions							

Pathway: Wind Turbine Role Specialist Skills

WT1 Install, assemble, commission and dismantle wind turbine plant and equipment, which will include pitch systems, yaw systems, switchgear, control systems to agreed specifications Merit Criteria - Minimum two to be Pass Criteria – All to be met Distinction Criteria - Minimum two to be met met Demonstrate a detailed technical Demonstrate a clear Demonstrate deeper understanding of their role and knowledge of the methods and technical/commercial knowledge responsibilities in relation to processes used to conduct the of the equipment/operation e.g. the work to be conducted installation costs, technical work Provide an accurate technical Pro-actively works with others to requirements planning, explanation for the purpose of identify areas for improvement sustainability of equipment etc and follows through on agreed the work activity Identify and implement tangible changes that improve the implementation Demonstrate a clear plan for efficiency of the work being the work to be undertaken and an understanding of any conducted

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WT1 Install, assemble, commission and dismantle wind turbine plant and equipment, which will include pitch systems, yaw systems, switchgear, control systems to agreed specifications

Systems, switchgear, control system		<u> </u>	Distinction Criteria Minimum ture to
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to
	T	met	be met
safety/technical information		Make recommendations /	● Identify and take action to report □
given		suggestions to improve work	or deal with issues of
Use tools and equipment to		efficiencies	nonconformity/compliance \Box
competently achieve the		Produce a detailed work plan to	Demonstrate the ability to take a
quality standards required by		support the work delivery	lead in accepting additional
the company in a timely		including measures to deal with	responsibility and autonomy to
manner		contingencies	achieve/improve the work being
Conduct the work in			undertaken
compliance with all relevant			
regulatory requirements and			
company policies and			
procedures			
Deal effectively with any			
issues within their role			
responsibilities, where			
necessary			
Complete the required checks			
and tests to confirm the work			
meets the accuracy, finish and			
quality standards required			



WT1 Install, assemble, commission and dismantle wind turbine plant and equipment, which will include pitch systems, yaw systems, switchgear, control systems to agreed specifications						
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.			
Questions Develop some open ended questions						

Pass Criteria – All to be met	M	erit Criteria – Minimum two to be	Distinction Criteria – Minimum two	to
	m	et	be met	
Demonstrate a clear	•	Demonstrate a detailed	Demonstrate deeper	
understanding of their role and		understanding of the process	technical/commercial knowledge	
responsibilities in relation to		and principles of preventative	of the maintenance operation	
the work to be conducted		maintenance	being undertaken e.g.	
Provide an accurate technical	•	Pro-actively works with others to	installation costs, technical	
explanation for the purpose of		identify areas for improvement	requirements, planning,	
the maintenance work		and follows through on agreed	corrective/preventative	
Demonstrate a clear plan for		implementation	Identify and implement tangible	╽╙
the work to be undertaken and	•	Make recommendations/	changes that improve the	
an understanding of any		suggestions to improve work	efficiency of the work being	
		efficiencies	conducted	



WT2 Carry out planned, unplanned and preventative maintenance procedures on wind turbine plant and equipment including mechanical drive systems Pass Criteria - All to be met Merit Criteria - Minimum two to be Distinction Criteria - Minimum two to met be met safety/ technical information Produce a detailed work plan to Identify and take action to report given support the maintenance or deal with issues of Use tools and equipment to operation including measures to nonconformity/compliance competently achieve the deal with contingencies Demonstrate the ability to take a quality standards required by lead in accepting additional the company in a timely responsibility and autonomy to achieve/improve the work being manner Conduct the work in undertaken compliance with all relevant regulatory requirements and company policies and procedures Deal effectively with any issues within their role responsibilities, where necessary Complete the required checks and tests to confirm the work meets the accuracy, finish and

quality standards required



WT2 Carry out planned, unplanned and preventative maintenance procedures on wind turbine plant and equipment including mechanical drive systems						
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.			
Questions Develop some open ended questions						

Pass Criteria – All to be met	Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two	to
	 met	be met	
Demonstrate a clear	Demonstrate a detailed	Demonstrate deeper technical/	
understanding of their role and	understanding of the causes and	commercial knowledge of the	
responsibilities in relation to	principles of component	repair/replacement work being	
the work to be conducted	degradation	undertaken e.g. costs, effect on	
Provide an accurate technical	Demonstrate a detailed	maintenance periods, equipment	
explanation for the purpose of	understanding of the	sustainability	
the maintenance work	limits/restrictions of component	Identify and implement tangible	
Demonstrate a clear plan for	replacement or repair e.g. In	changes that improve the	
the work to be undertaken and	terms of reliability, certification of	efficiency of the work being	
an understanding of any	instruments/systems etc.	conducted	



WT3 Replace, repair and/or remove components in wind turbine plant and equipment and ensure its return to operational condition.



WT3 Replace, repair and/or remove components in wind turbine plant and equipment and ensure its return to operational condition.							
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.				
Questions Develop some open ended questions							

WT4 Diagnose and determine the cause of faults in wind turbine plant and equipment						
Pass Criteria – All to be met		Merit Criteria – Minimum two to be		Distinction Criteria – Minimum two to		
		met		be met		
Demonstrate a clear understanding of their role and		Demonstrate a detailed understanding of the		Demonstrate deeper technical/commercial knowledge		
responsibilities in relation to the fault diagnosis to be		theory/principles of relevant diagnostic techniques		of the effect of fault diagnosis and repair e.g. fault analysis,		
conducted • Provide an accurate technical explanation for the purpose and process of the fault's		 Able to identify the root cause of the fault and preventative measures Pro-actively works with others to 		costs, prevention, lost time Identify and implement tangible changes that improve the efficiency of the work being		
 activity Demonstrate a clear plan for the diagnosis to be undertaken and an understanding of any 		identify areas for improvement and follows through on agreed implementation		 conducted Identify and take action to report or deal with issues of nonconformity/compliance 		



Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met		
safety/technical information given Competently use the correct tools, equipment, technical data and diagnostic techniques to identify, locate and diagnose fault/s in a timely manner	 Make recommendations/ suggestions to improve work efficiencies Produce a detailed work plan to support the maintenance operation including measures to deal with contingencies 		Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the work being undertaken	
Correctly analyse and interpret the results of the fault-finding techniques conducted Conduct the work in				
compliance with all relevant regulatory requirements and company policies and procedures				
Complete the required checks and tests to confirm the work meets the accuracy, finish and quality standards required				



WT4 Diagnose and determine the cause of faults in wind turbine plant and equipment							
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.				
Questions							
Develop some open ended questions							



Appendix F: Practice Technical Interview Template

This document is for use by the employer/provider person playing the role of the assessor during a practice technical interview. It is designed to help replicate the live assessment experience and to enable feedback to be provided to the apprentice.

The practice technical interview must be conducted under examination conditions and recorded. The apprentice must be asked questions.

There are a maximum of **100 marks** for the interview.

To achieve a Pass for the technical interview, a Pass is required in ALL relevant elements, including all skills from the specialist pathway.

To achieve a Merit or Distinction for the technical interview, all Pass criteria must be achieved PLUS a minimum number of merit and distinction marks as described in Section 3 in the Specification 'Grading and Grading Criteria – Component 3: Technical Interview.'

Apprentice Full Name:			
Employer and location:			
Assessor Full Name:			
Date of Interview:	Start time:	Finish time:	



K1 First principles relating to the operation and maintenance of appropriate plant and equipment							
Pass Criteria – All to be met		Merit Criteria – Minimum two to be		Distinction Criteria – Minimum two to			
		met		be met			
 A working knowledge of the 		A detailed understanding by		An excellent knowledge and			
principles of operation for the		explaining additional technical		thorough understanding of the			
range of plant/equipment they		detail of the operating principles		relevant engineering principles			
are responsible for		of the plant/equipment they are		relative to the operation and			
The primary purpose of the		responsible for e.g. operating		maintenance of plant and			
range of plant/equipment		limits, tolerances, restrictions,		equipment encountered in their			
worked on e.g. what the plant /		effects on system		job role			
equipment worked on does		A detailed understanding by		Evidence of conducting			
How the plant/equipment		explaining additional technical		supporting technical analysis to			
interacts within the overall		detail of the function / interaction		gain a greater understanding of			
system		of the plant/equipment within the		(a or b) a) the operating			
The typical characteristics of		overall system e.g.		principles of plant/equipment			
healthy and unhealthy		synchronisation, effects on		worked on b) the function/effect			
operation for the range of		system		of the plant/ equipment within			
plant/equipment worked on		How they have used their		the overall system			
and how to identify the		knowledge of plant and		Conducting technical research			
difference		equipment		into the effects of new			
How they have used their		operating/maintenance		technologies on current/future			
knowledge of plant and		principles to improve or enhance		maintenance			
equipment		operational activities		requirements/methodologies			
operating/maintenance							



K1 First principles relating to the operat	on and maintenance of appropriate plant	and equipment		
Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Crite be met	eria – Minimu	m two to
principles to support their work decisions/activities				
Assessor must ask the following standardised questions.	Assessor must record all additional of for clarification and the responses prapprentice including examples.		Recording timeline.	Mark awarded
Questions Develop some open ended questions				

K2	K2 Relevant industry health and safety standards, regulations, and environmental and regulatory requirements							
Pas	Pass Criteria – All to be met		Merit Criteria – Minimu	m two to be	Dis	stinction Criteria – Minimum two	to	
			met		be met			
•	A working knowledge of the		 A detailed understand 	ding of the	•	Excellent and thorough health,		
	relevant health, safety and		relevant health, safet	y and $\qquad \qquad \Box$		safety and environmental		
	environmental regulations and		environmental regula	tions and		knowledge and understanding in		
	standards and how they		standards by explain	ing		relation to the wider impact of		
	impact the overall operation		additional technical d	etail e.g.		relevant industry working		
• ,	A clear understanding of their		how they influence he	ow the work		practices and regulations for their		
	responsibilities and those of		is planned and/or cor	nducted		work activities		
	others under the relevant	П	 Conducting reviews of 	of work	•	How they have taken a leading		
	company policies and		health, safety and en	vironmental 🗀		role in identifying health, safety		
	procedures which apply to the		arrangements and the	eir		and environmental deficiencies		



ass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met			
range of work undertaken and describe why they are required A knowledge of the company process/s and/or procedures for achieving and maintaining safety when working on systems within their work role and how they impact the work	applicability and adapting them for changing circumstances whilst still maintaining safety • How they have readily accepted additional health, safety and environmental responsibility/autonomy to maintain/improve work safety standards	and then implementing the appropriate solution/s in line with Company policies/procedures How they have challenged unsafe behaviour/practices using appropriate techniques			
and how they impact the work e.g. safe systems of work, documentation A clear understanding of the purpose of conducting risk assessments and the factors	standards				
which affect the critical reasoning when making risk assessment decisions A knowledge of the Company procedure/s for reporting safety concerns and emergencies					



K2 Relevant industry health and safety standards, regulations, and environmental and regulatory requirements							
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the response provided by the apprentice including examples.	Recording timeline.	Mark awarded.				
Questions Develop some open ended questions							

Pass Criteria – All to be met			Distinction Criteria - Minimum two to be met		
 A working knowledge of the maintenance requirements for the range of plant/ equipment worked on within their job role A working knowledge of the 	A detailed knowledge of the company maintenance practices by explaining additional technical detail for maintenance procedures on		An excellent and thorough knowledge and understanding of relevant maintenance and operational practices/procedures for their job role		
company's operational processes and procedures and how these have affected/influenced their maintenance work	 plant/equipment A detailed knowledge of the company operational processes and procedures which affect maintenance 		An ability to analyse and provide valid justification for the company's maintenance procedures and/or operational practices for maintenance work on		
 Their planning process for conducting maintenance operations and the factors which have influenced their 	 operations by explaining additional operational detail A detailed knowledge of the range of testing procedures 		plant and equipment • A detailed technical/commercial understanding of the effects of		



Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Criteria - Minimum two to b met			
critical reasoning/decision making when planning their work A working knowledge of the range and type of test procedures which they have used to confirm their work has met with company operational requirements and standards A knowledge of how their maintenance activities have impacted plant/equipment/others		and the implications of the results obtained	conducting main procedures on Company plant cost, reliability, sustainability	t/equipment e.	g.	
Assessor must ask the following standardised questions.		Assessor must record all additional for clarification and the response proapprentice including examples.	•	Recording timeline.	Mark awar	
Questions Develop some open ended question	S					



K4 The relevant engineering theories and principles relative to their occupation								
Pass Criteria – All to be met			erit Criteria – Minimum two to b	е	Distinction Criteria – Minimum two to			
		m	et		be met			
A working knowledge of the		•	A detailed knowledge of the		An excellent and thorough			
range of relevant operational			relevant operational theories		knowledge and understanding of \Box			
theories and principles which			and principles which have		the relevant operational theories			
underpin their work			supported and/or influenced		and principles relative to plant			
A working knowledge of the			their work activities		and equipment in their job role \Box			
basic effect/influence of the		•	How they have used relevant		How they have used their			
relevant operational theories			operational theories and		understanding of relevant			
and principles which directly			principles to support /		operational theories and			
underpin their work activities			influence their work		principles to make suggestions			
The benefits of being able to			decisions/activities		which have influenced or led to			
identify and apply the differing		•	Their inclusion of operational		an improved performance			
operational theories and			formulae/theories/principles to		How they have conducted			
principles in relation to their job			support their technical		further technical research which			
role e.g. maintenance			explanations in relation to their		is based on relevant operational			
inspections, fault finding			work activities		theories and principles to			
A working knowledge of how to					support the effects of current or			
apply the relevant operational					future technologies			
formulae which can be used to								
support their work activities								



K4 The relevant engineering theories and principles relative to their occupation							
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the response provided by the apprentice including examples.	Recording timeline.	Mark awarded.				
Questions Develop some open ended questions							

S5 Locate, and rectify faults on plant and equipment					
Pass Criteria – All to be met		Merit Criteria – Minimum two to be i	met	Distinction Criteria – Minimum two to	
				be met	
A working knowledge of the		A detailed knowledge of the		An excellent	
company policies and		company processes and		knowledge/understanding in	
procedures for the location of		procedures by explaining		relation to fault	
faults on plant and equipment		additional technical detail for the		location/rectification procedures	
worked on		fault location		within their job role	
A clear understanding of the	Ш	methods/procedures conducted		How they have used a range of	
company policies and		on plant/ equipment/systems		methods to locate, and rectify	
procedures in relation to		A detailed understanding of the]	faults on plant and equipment,	
achieving the safe isolation of		tools and equipment that can be		with a detailed	
equipment from relevant		used to identify and locate faults		explanation/justification of their	
sources of energy and		on plant/equipment/systems		chosen methods	
maintaining safety from the		Their ability to take a lead in fault		How they have used their	
system		finding/rectification activities and		knowledge of fault	
		accept additional		location/rectification to	



b to be met Distinction Criteria – Minimum two
the improve/influence work outcomes



S5 Locate, and rectify faults on plant and equipment							
Assessor must ask the following standardised questions.	Assessor must record all additional questions asked for clarification and the response provided by the apprentice including examples.	Recording timeline.	Mark awarded.				
Questions Develop some open ended questions							

S6 Read, understand and interpret information and work in compliance with technical specifications and supporting documentation Pass Criteria - All to be met Merit Criteria - Minimum two to be Distinction Criteria - Minimum two to met be met A working knowledge of the How they have taken a lead in range of information which can interpreting/relaying technical be gained from company information to progress work or policies and procedures which support others understanding affect their work How they have A working knowledge of the questioned/clarified information range and type of technical which was unclear or incorrect information/specifications How they have available and how they are reported/updated information used to support work activities which was not technically How they have used company correct/accurate work information and technical



Pass Criteria – All to be met	Merit Criteria – Minimum two	to be Distinction be met	Distinction Criteria – Minimum two be met		
specifications to conduct/support their work activities Describe how they have used Company information to record/report the results of work carried out in line with company procedures					
Assessor must ask the following standardised questions.	Assessor must record all addit for clarification and the respor apprentice including examples	se provided by the	Recording timeline.	Mark awarded	

S7 Inspect and maintain appropriate plant and equipment to meet operational requirements							
Pass Criteria – All to be met		Merit Criteria – Minimum two to be		Distinction Criteria – Minimum two to			
		met		be met			
How they have planned		Their ability to explain in detail		An excellent			
inspection and maintenance		the range of skills, knowledge		knowledge/understanding in			
operations and the factors		and behaviours they have		relation to			

EEA Level 3 End-point for Maintenance and Operations Engineering Technician (Wind Turbine)

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ass Criteria – All to be met	Merit Criteria – Minimum two to b met	е	Distinction Criteria – Minimum two be met	to
which influenced their critical reasoning/decisions during their planning process How they have implemented/complied with company operational processes and procedures during their conducted inspection and maintenance work How they have used tools/techniques/equipment to conduct maintenance inspection and maintenance procedures on a range of plant/equipment to meet company standards How they have used test equipment/procedures on plant/equipment to confirm that the work completed met with	used to support their conducted inspection/maintenance operations How they have pro-actively worked with others to resolve problems during inspection/maintenance operations which supported work progression/performance How they have taken action to report or deal with issues of nonconformity or noncompliance during inspection/maintenance work operations		inspection/maintenance procedures within their job role Their ability to explain/justify the Company inspection and maintenance procedures used for a range of plant and equipment How they have taken a lead in accepting additional responsibility/autonomy to improve the outcome of inspection/maintenance operations	



Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Crite be met	ria – Minimun	n two to
Company operational requirements How they have reported/recorded the outcome of their inspection and maintenance operations					
Assessor must ask the following standardised questions.		Assessor must record all additional of for clarification and the response proapprentice including examples.	•	Recording timeline.	Mark awarded
Questions Develop some open ended questions	S				

Pass Criteria – All to be met		Merit Criteria – Minimum two to b	Distinction Criteria – Minimum two to be met		
A working knowledge of their role and responsibilities in the handover of the system/equipment/plant back to operational service		How they have taken a pro- active lead in the handover process by effectively communicating the detail of		How they have consulted/involved team members/other relevant persons to achieve greater understanding and improved performance	



Pass Criteria – All to be met	Merit Criteria – Minimum two to b	е	Distinction Criteria – Minimum two to be met	to
A working knowledge of the Company process for the handover of plant/equipment which has been worked on How they have completed the required checks/tests to confirm the plant/equipment/system worked on meets operational requirements before conducting the handover process How they have completed the handover of plant/equipment in line with relevant company policies and procedures How they have confirmed the recipient/s of the handover process fully understand any critical information given	handover arrangements with stakeholders Their ability to develop positive professional relationships with individuals to support the handover process and resolve any issues within their role responsibility How they have adapted their communication method/style to better suit the changing circumstances/needs of the work		Their ability to actively address conflict/ resolve problems with positive outcomes to build positive relationships and Their ability to effectively communicate technical information across a wide range of stakeholders e.g. colleagues, management, briefings/meetings, external clients	



Pass Criteria – All to be met		Merit Criteria – Minimum two to be)	Distinction Crite	ria – Minimun	n two t	to
		met		be met			
How they have completed the company process for reporting/ recording the handover of plant/equipment back into service in line with company							
Assessor must ask the following standardised questions.		Assessor must record all addition for clarification and the response apprentice including examples.	•		Recording timeline.	Mark awar	
Questions Develop some open ended question	ıs						

Pathway: Wind Turbine Role Specialist Skills

WT1 Install, and determine the cause of faults in wind turbine plant and equipment								
Pass Criteria – All to be met		Merit Criteria – Minimum two to		Distinction Criteria – Minimum two to be				
		be met		met				
A working knowledge of their responsibilities for the range of work activities within their job role		A detailed understanding of the range and technical requirements of the plant and equipment worked on		An excellent knowledge and understanding in relation to the range and technical requirements				

EEA Level 3 End-point for Maintenance and Operations Engineering Technician (Wind Turbine)

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WT1 Install, and determine the cause of faults in wind turbine plant and equipment								
Pass Criteria – All to be met		Merit Criteria – Minimum two	to	Distinction Criteria – Minimum two to be				
	be met		met					
 How they have used company 		A detailed technical		of the plant and equipment worked				
policies/procedures/specifications		understanding for the		on				
to conduct a range of position,		range of		■ Their ability to explain/justify the				
assemble, install and dismantle		methods/techniques used		Company methods				
work activities		for their position,		/processes/procedures used for the				
How they have used tools and		assemble, install and		range of plant and equipment				
equipment to conduct a range of		dismantle work activities		worked on				
position, assemble, install and		A detailed technical		How they have taken a lead in				
dismantle activities in compliance		understanding for the		accepting additional				
with specifications and regulatory		factors which can affect		responsibility/autonomy to improve				
requirements		their critical reasoning		the outcome of their				
How they have conducted the		when making decisions to		position/assemble/install/dismantle				
required checks/test procedures		resolve technical		work activities				
to confirm the completed work		problems						
meets company/operational		 How they have taken a 						
requirements		proactive lead in						
How they have used critical		organising/controlling						
reasoning to identify and resolve		their conducted work						
technical problems within their		activities which has led to						
control effectively during their		a successful completion						
range of work activities								



WT1 Install, and determine the cause	of fau	ults in wind turbine plant and equ	uipme	ent			
Pass Criteria – All to be met	Merit Criteria – Minimum two	to	Distinction Criteria – Minimum two to be			be	
		be met		met			
How they have reported/recorded							
the work conducted and returned							
the work area to a safe condition							
in line with company procedures							
Assessor must ask the following		Assessor must record all ad	ditio	nal questions	Recording	Mark	•
standardised questions.	asked for clarification and the response provided by the apprentice including examples.		timeline.	awar	ded.		
Questions				-			
Develop some open ended questions							

WT2 Carry out planned, unplanned and preventative maintenance procedures on wind turbine plant and equipment including mechanical drive systems Pass Criteria – All to be met Merit Criteria – Minimum two to Distinction Criteria – Minimum two to

· · · · · · · · · · · · · · · · · · ·						
Pass Criteria – All to be met	4	Me	erit Criteria – Minimum two t	o Distinction Criteria – Minimum two t		
		be	met		be met	
A working knowledge of their		•	A detailed understanding of		An excellent knowledge and	
responsibilities for the range of			the range and technical		understanding in relation to the	
work activities within their job role			requirements of the plant		range and technical maintenance	
How they have used company			and equipment worked on		requirements of the plant and	
policies/procedures/specifications	Ш	•	A detailed technical		equipment worked on	
to conduct a range of			understanding for the range		Their ability to explain/justify the	
			of methods/techniques		company maintenance	

EEA Level 3 End-point for Maintenance and Operations Engineering Technician (Wind Turbine) Supporting Documents v2.0



WT2 Carry out planned, unplanned and preventative maintenance procedures on wind turbine plant and equipment including mechanical drive systems



Pass Criteria – All to be met	Merit Criteria – Minimum two to be met				
the work area to a safe condition					
in line with company procedures					
Assessor must ask the following standardised questions.	Assessor must record all addition asked for clarification and the rest the apprentice including example	rification and the response provided by		Mark awarde	
Questions					
Develop some open ended questions					

WT3 Replace, repair and/or remove components in wind turbine plant and equipment and ensure its return to operational condition

AND

WT4 Diagnose and determine the cause of faults in wind turbine plant and equipment

Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to		
		met		be met	
A working knowledge of their		A detailed understanding of		An excellent knowledge and	
responsibilities for the range of		the methods and technical		understanding in relation to the	
replace/repair activities		requirements for the range of		range and technical	
undertaken		plant and equipment replaced/		requirements of the plant and	
How they have used company		repaired		equipment replaced/repaired	
policies/					

EEA Level 3 End-point for Maintenance and Operations Engineering Technician (Wind Turbine) Supporting Documents v2.0



WT3 Replace, repair and/or remove components in wind turbine plant and equipment and ensure its return to operational condition

AND

WT4 Diagnose and determine the cause of faults in wind turbine plant and equipment

Pass Criteria – All to be met			lerit Criteria – Minimum two to b	е	Distinction Criteria – Minimum two to			
		m	net		be met			
procedures/specifications to conduct a range of replace/repair work procedures How they have used tools and equipment to conduct a range of replace/repair procedures in compliance with all company health, safety and environmental processes, policies and regulatory requirements		•	A detailed technical understanding for the range of causes and effects which lead to plant and equipment being replaced/repaired A detailed technical understanding for the factors which can affect their critical reasoning when making decisions to resolve technical problems		 Their ability to explain/justify the company methods/processes/ procedures used for the range of plant and equipment replaced/repaired How they have taken a lead in accepting additional responsibility/autonomy to improve the outcome of their replace/repair work activities 			
How they have conducted the required checks/test procedures to confirm the plant/equipment worked on can be returned to operational service		•	How they have taken a pro- active lead in organising/controlling their conducted replace/repair work activities which has led to a successful completion					



WT3 Replace, repair and/or remove components in wind turbine plant and equipment and ensure its return to operational condition

AND

WT4 Diagnose and determine the cause of faults in wind turbine plant and equipment

Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Crite	ria – Minimun	n two to
		met	be met		
 How they have used critical reasoning to identify and resolve technical problems within their control How they have returned plant/equipment worked on to operational service in line with company procedures 					
Assessor must ask the following standardised questions.		Assessor must record all additional for clarification and the response papprentice including examples.	•	Recording timeline.	Mark awarded.
Questions					
Develop some open ended question	IS				



Appendix G: Portfolio Mapping Document

Introduction

Throughout the on-programme part of the apprenticeship, the apprentice will need to compile a portfolio of evidence to support the requirements of the technical interview which is based on the portfolio. The evidence within the portfolio will need to be mapped by the apprentice to the KSB requirements using the portfolio mapping document below.

The independent assessor will use the portfolio mapping document to review the evidence in the apprentice's portfolio in preparation for the technical interview.

The portfolio mapping document below consists of the core requirements and specialist skills.

Apprentices next steps

- 1. Complete all the details on the first page and include employer details of where relevant competencies from their experience at work was gained.
- 2. Ensure each piece of evidence is signed off by their tutor/supervisor/mentor and training provider. The apprentice can use a number of different types of evidence to demonstrate their competence as described in Section 5 of the Specification 'What to include in the portfolio of evidence'. For further guidance, the apprentice must seek advice from their tutor/supervisor/mentor and training provider.
- 3. Map evidence to the criteria in the following pages using a referencing system indicating where the evidence for the criteria is located in the portfolio e.g., work based evidence Job 1 (J1) page 5 paragraph 2. This will allow the independent assessor, appointed by Energy & Environment Awards to locate the section or specific piece of evidence being discussed and referred to during the interview.
- 4. Place the portfolio mapping document at the front of the portfolio of evidence.

The apprentice's training provider must make arrangements for Energy & Environment Awards to have access to the apprentice's portfolio including the portfolio mapping document at Gateway. For those using e-portfolios such as ONEFILE or SMARTASSESSOR the reference used must simply be the file or folder name you used when uploading the evidence to such systems.



Portfolio Mapping Document

This document must be placed at the front of the Portfolio and submitted to Energy & Environment Awards with the Portfolio.

Mapping Sign off on Completion:

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

Core Knowledge

Ref.	Apprenticeship Standard Criteria	PORTFOLIO REVIEW (Apprentice Input) 1 2 3				
K1	First principles relating to operation and maintenance of plant and equipment					
K2	Relevant industry health and safety standards, regulations and environmental and regulatory requirements					
K3	Maintenance and operational practices, processes and procedures					
K4	Relevant engineering theories and principles					
Asse	essor Comments:	•				



Core Skills

Ref.	Apprenticeship Standard Criteria	PORTFOLIO REVIEW (Apprentice Input)					
		1	2	3			
S5	Locate, and rectify faults on plant and equipment						
S6	Read, understand, interpret and work to technical information						
S7	Inspect and maintain plant and equipment						
S8	Communicate, handover and confirm that the appropriate engineering process has been completed						
Asse	essor Comments:						

Core Behaviours

Ref.	Apprenticeship Standard Criteria	PORTFOLIO REVIEW (Apprentice Input)					
			1	2	3		
B5	Critical reasoning						
Asse	essor Comments:						



Pathway: Wind Turbine Specific Skills

Ref.	Apprenticeship Standard Criteria	PORTFOLIO REVIEW (Apprentice Input)		
		1	2	3
WT1	Install, assemble, commission and dismantle wind turbine plant and equipment, which will include pitch systems, yaw systems, switchgear, control systems to agreed specifications			
WT2	Carry out planned, unplanned and preventative maintenance procedures on wind turbine plant and equipment including mechanical drive systems			
WT3	Replace, repair and/or remove components in wind turbine plant and equipment and ensure its return to operational condition			
WT4	Diagnose and determine the cause of faults in wind turbine plant and equipment			
Assessor Comments:				



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