

EPA Supporting Documents for

Level 3
Maintenance and Operations Engineering Technician
(Wind Turbine)
QAN 603/7266/7













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Updates to the supporting documents

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

Version	Date first published	Section updated	Page(s)
		Appendix C: Sample Answer Sheet	25
v3.0	2023	Appendix G: Replaced (Assessor Use Only) with (Apprentice Input)	81 - 84
		Footer for V2.0 below stated V3.0 this has been removed. This version is v3.0	All
V2.0	2023	New template and rebranded	All
V1.0	2020	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: ST0154 version 1.2; Assessment Plan Version: ST0154/AP02)

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 apprenticeship standard with any other End Point Assessment Organisation?	Y/N
If "Yes" please give details:	

Apprentice's details

Eligibility requirements:

The apprentice must confirm their achievement of the following:

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 EUIAS.
- 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 EUIAS 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 EUIAS 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 the EUIAS Appeals Policy and Complaints Policy.
- 10. The employer/training provider has given the EUIAS 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 EUIAS, 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:
EUIAS use only:		
EUIAS 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:

1 (A) (B) (C) ANSWER COMPLETED CORRECTLY

Examples of how NOT to mark your examination answer sheet. These will not be recorded.

A B C DO NOT partially shade the answer circle
ANSWER COMPLETED INCORRECTLY

DO NOT use ticks or crosses

ANSWER COMPLETED INCORRECTLY

ANSWER COMPLETED INCORRECTLY

DO NOT shade over more than one answer circle
ANSWER COMPLETED INCORRECTLY

This paper must be returned to EUIAS with the apprentice answer sheets.



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



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

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		

Questio	Question 3	
Safety critical equipment should be maintained:		
Possible	e answers	
a)	every twelve months	
b)	more frequently than non-safety critical equipment	
c)	less frequently than non-safety critical equipment	
d)	at the same period as safety non-critical equipment	



Questio	Question 4	
Which statement best describes what is meant by the terminology "specification"?		
Possible	e 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	

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

Questio	Question 6	
	What do the initials IP followed by 2 numbers refer to when seen on a piece of equipment?	
Possibl	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



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

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

	a teenmount of processing and ten in impact			
P	Possible answers		A.	B. •
	a)	Α		
	b)	В	C.	Δ. Δ
7	c)	С	<u>*</u>	
	d)	D		ΔΔΛ



Question 12		
When p	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	
was regarded as hazardous? Possible answers	
1 000151	
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

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



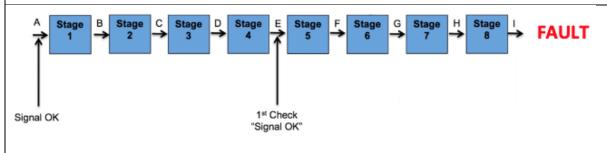
Question 15	
In accordance with HSE guidelines, isolations can only be applied by:	
Possible answers	
a)	competent people
b)	training and authorised people
c)	skilled people
d)	experienced people

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]



Using the half split principle and referring to image below, at which position should a technician make the next check when fault finding?



Possible answers	
a)	Point C
b)	Point F
c)	Point G
d)	Point I

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



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?

this symb	pol represent?					
Possible answers						
a)	Electrical signal					
b)	Pneumatic signal	#	#	#	-11	İ
c)	Hydraulic signal					
d)	Instrument signal					

[Turn to the next page for question 21]



Questic	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 v	Where would you commonly find the transformer on a sub megawatt (MW) wind		
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?			
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:			
Possible answers			
a)	5000 Watts		
b)	500 Watts		
c)	50 Watts		
d)	5 Watts		

Question 25		
What is the purpose of the gearbox in ta wind turbine?		
Possible answers		
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	Question 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		



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?			
Possibl	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	e 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

Question	Answer
16	С
17	С
18	Α
19	В
20	В
21	С
22	В
23	Α
24	В
25	С
26	D
27	В
28	В
29	D
30	D





SAMPLE ANSWER SHEET



Candidate ID	Atte	mpt
Last Name		
No. According to the Control of the		
Exam Date	Pa	per
Centre Name		
Centre Number		
MARKING INSTRUCTIONS		
Answers should be completed us	ing a HB pencil.	
○ ○ ○ ■ ANSWER COMPLI	ETED CORRECTLY	
Examples of how NOT to mark your	examination sheet. These will not	be recorded
	hade the answer circle.	
	or crosses.	
⊗ ⊚ ⊚ DO NOT use circle	s.	
	er more than one circle.	
1 0 0 0 0	21 🛇 🗇 🔘 🔘	
2 0 0 0 0	22 🕙 🗇 🔘 🔘	
3 0 0 0 0	23 🕙 🔘 🔘 🔘	
4 0 0 0 0	24 🕙 🗇 🔘 🔘	
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 0 0 0 0		
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.

The EUIAS offer an optional service to 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

Employer name and site	
address	
Training provider (if	
applicable)	
Standard	Maintenance and Operations Engineering
	Technician
Pathway	Wind Turbine
Level	3
Location of practical	
Contact Datailer	
Contact Details:	
Employer/training provider	
representative, email address	
and contact number	
overseeing the setup of the	
competency test (documents	
and site).	
EUIAS Date of review:	
Description of the proposed	complex task(s):
Special requirements (for exa	mple: access arrangements/PPE):
7	
Equipment/tools required:	Resources required:
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 	one apprentice to
Practical Task: Include relevant photographs to illustrate task(s)	



EUIAS Office 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.



Pass Criteria – All to be met Merit Criteria – Minimum two to be	
 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 matters affecting them where required 	



Develop some open ended question	1S			
Questions				
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.
in a safe/secure condition for others				
Check to ensure the site is left				
site safety	Ш			
when necessary to maintain				
conditions and take action				
Regularly re-assess the site				
appropriate tools and equipment				
Inspect and use the				
a safe working environment				
systems of work and maintain				
Comply with and apply safe				



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 range of technical information provided to plan and conduct the work Demonstrate a clear understanding of the purpose and use of the technical information provided for the work 		 Demonstrate a detailed knowledge of the range and purpose of the technical information available Identify inaccuracies/deficiencies in the technical information provided and resolve/report the situation Challenge in a professional 		 Demonstrate their ability to effectively communicate technical information across a wide range of stakeholders e.g. colleagues, management, briefings/meetings, external clients Consult and involve team members and/or other relevant 		
Use and refer to the technical information provided to check/confirm the work conducted meets the required company standards/specifications Where pagestary		 manner any areas of concern to clarify understanding Identify/suggest methods of improving the system/use of information 		persons to achieve greater understanding and improved performance • Demonstrate the ability to build positive relationships and actively address conflict with		
Where necessary, question/clarify any information which is not clearly understood				positive outcomes		



Complete any technical or supporting documentation in 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		Merit Criteria – Minimum two to be		Distinction Criteria – Minimum two to			
		met		be met			
 Demonstrate an understanding of the importance of good preparation and the potential outcomes of poor preparation Inspect and prepare the work area and equipment to be 		 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 support the organisation of the 		Demonstrate a deeper understanding of the implications of good and poor work preparation. e.g. In terms of cost, time, value, company reputation etc			



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 award			
Reinstate the work area to ensure it is left in a safe and secure condition e.g. locks, notices, documentation							
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							
 worked on in line with company policies/procedures Identify and implement any special precautions required by the work activity or environment, where required Maintain good housekeeping practices and a safe working environment throughout the activity 		 work, including measures to deal with contingencies Demonstrate their ability to develop positive professional relationships with individuals to support the work activity Make valid suggestions/ recommendations to improve the planning/preparation of the work activity 		Demonstrate lead in accept responsibility achieve/impro undertaken	ting additional and autonomy	y to	
worked on in line with		work, including measures to deal		Demonstrate	the ability to ta	ake a	$\overline{\Box}$



Questions
Develop some open ended questions

Pass Criteria – All to be met		
 Demonstrate a clear understanding of the company polices/procedures for the assessment and testing of plant and equipment to be worked on Demonstrate a clear understanding of the types and purpose of testing 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					
	ssessor must ask the following andardised questions.		Assessor must record all additional que for clarification and the responses provapprentice including examples.	Recording timeline.	Mark awar	
Q	uestions					
De	evelop some open ended questio	ns				



Pass Criteria – All to be met	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 responsibilities for the fault location and rectification activity to be undertaken Provide an accurate technical explanation of the company's fault location methods, processes and/or procedures Competently use the correct tools, equipment and methods 								
to locate the rectify the fault/s in a timely manner Conduct the work in compliance with all relevant regulatory requirements and company policies and procedures Complete the required tests/checks to confirm the		 Make recommendations/ suggestions to improve the location/rectification work activity 		 nonconformity/compliance Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the work being undertaken 				



	fault rectification has been					
	successful					
•	Record the results/outcomes					
	of rectification work in line with					
	company requirements					
				 _		
	ssessor must ask the following andardised questions.	Assessor must record all additional for clarification and the responses paperentice including examples.	-	Recording timeline.	Mark awar	
st		for clarification and the responses p	-	_		

S	S6 Read, understand and interpret information and work in compliance with technical specifications and supporting documentation							
P	ass Criteria – All to be met		M	erit Criteria – Minimum two to be		Distinction Criteria – Minimum two to		
			m	et		be met		
•	Read and correctly interpret a		•	Demonstrate a detailed				
	range of technical information			knowledge of the range and				
	provided to plan and conduct			purpose of the technical				
	the work			information available				
•	Demonstrate a clear		•	Identify inaccuracies/deficiencies				
	understanding of the purpose			in the technical information				







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



Develop some open ended question	18
Questions	
Assessor must ask the following standardised questions.	
 Demonstrate consistent application of policies and procedures during the work activity Record/report the results of the inspection in line with company procedures 	



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 responsibilities in returning the system/equipment back to operational service.		Demonstrate a detailed understanding of the factors which can support and influence a smooth handover of	Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the handover		
 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 		 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 	 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 		
 Conduct the handover in compliance with all relevant policies and procedures Clearly communicate the details of the handover including any additional 		Confidently lead the handover process taking charge of the operation and resolving any issues within their role responsibility	problems with positive outcomes • Demonstrate their ability to effectively communicate technical information across a wide range of stakeholders e.g. colleagues, management,		



requirements to the relevant		Adapts the method and style of	briefings/mee	etings, externa	
parties		communications to changing	clients	-	
 Complete all relevant reporting/recording documentation in line with company procedures Leave the work area in a safe/secure condition for 		circumstances and need			
others					
Assessor must ask the following standardised questions.		Assessor must record all additiona for clarification and the responses apprentice including examples.	•	Recording timeline.	Mark awarded.
Questions					
Develop some open ended question	ons				

B1 Health and Safety							
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Criteria – Minimum 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 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			

B2 Quality focused					
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to		
		met	be met		
Ensures that work achieves					
quality standard both					
occupationally and personally					



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			

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



B4 Interpersonal skills							
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two 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 pro apprentice including examples.		Recording timeline.	Mark awarded.		
Questions							
Develop some open ended question	ns						

B6 Sustainability and ethical behaviour						
Pass Criteria – All to be met	Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to				
	met	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 questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.
Questions Develop some open ended questions			

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					
Assessor must ask the following standardised questions.		Assessor must record all additional qualifor clarification and the responses proapprentice including examples.		Recording timeline.	Mark awarded.



Develor some onen ended questions	Questions
Develop some open ended 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 Distinction Criteria - Minimum two to Pass Criteria – All to be met met be met Demonstrate a detailed technical Demonstrate a clear Demonstrate deeper knowledge of the methods and technical/commercial knowledge understanding of their role and processes used to conduct the of the equipment/operation e.g. responsibilities in relation to the work to be conducted installation costs, technical work Provide an accurate technical Pro-actively works with others to requirements planning, sustainability of equipment etc identify areas for improvement explanation for the purpose of Identify and implement tangible the work activity and follows through on agreed implementation changes that improve the Demonstrate a clear plan for efficiency of the work being the work to be undertaken and Make recommendations an understanding of any conducted /suggestions to improve work safety/technical information efficiencies Identify and take action to report or deal with issues of given Produce a detailed work plan to nonconformity/compliance Use tools and equipment to support the work delivery competently achieve the



 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 Assessor must ask the following standardised questions.	9	Assessor must record all additional for clarification and the responses papprentice including examples.	•	Recording timeline.	Mark awar	



WT2 Carry out planned, unplanned and preventative maintenance procedures on wind turbine plant and equipment including mechanical drive systems Merit Criteria - Minimum two to be Pass Criteria - All to be met Distinction Criteria - Minimum two to met be met Demonstrate a detailed Demonstrate deeper Demonstrate a clear technical/commercial knowledge understanding of their role and understanding of the process П responsibilities in relation to and principles of preventative of the maintenance operation the work to be conducted maintenance being undertaken e.g. installation costs, technical Provide an accurate technical Pro-actively works with others to identify areas for improvement explanation for the purpose of requirements, planning, corrective/preventative the maintenance work and follows through on agreed implementation Identify and implement tangible Demonstrate a clear plan for changes that improve the the work to be undertaken and Make recommendations/ efficiency of the work being an understanding of any suggestions to improve work safety/ technical information efficiencies conducted given Produce a detailed work plan to Identify and take action to report or deal with issues of Use tools and equipment to support the maintenance nonconformity/compliance competently achieve the operation including measures to quality standards required by deal with contingencies Demonstrate the ability to take a the company in a timely lead in accepting additional responsibility and autonomy to manner 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					
	ssessor must ask the following andardised questions.		Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	ecording neline.	Mark awar	
Q	uestions					
D	evelop some open ended question	ns				



Pass Criteria – All to be met		Me	erit Criteria – Minimum two to be	Distinction Criteria – Minimum two	to
		me	et	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	Ш		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	
safety/technical information		•	Pro-actively works with others to	Identify and take action to report	
given			identify areas for improvement	or deal with issues of	
 Use tools and equipment to 			and follows through on agreed	nonconformance/compliance	
competently carry out the			implementation	Demonstrate the ability to take a	
removal/replacement of		•	Make	lead in accepting additional	
components in a logical			recommendations/suggestions	responsibility and autonomy to	
sequence and timely manner			to improve work efficiencies	achieve/improve the work being	
 Conduct the work in 	П	•	Produce a detailed work plan to	undertaken	
compliance with all relevant			support the maintenance		



Develop some open ended question	าร					
Questions						
Assessor must ask the following standardised questions.		Assessor must record all additionation for clarification and the responses apprentice including examples.	•	Recording timeline.	Mark awar	
quality standards required					T	
meets the accuracy, finish and						
and tests to confirm the work						
Complete the required checks						
necessary	П					
responsibilities, where						
issues within their role						
Deal effectively with any						
company procedures		deal with contingencies				
regulatory requirements and		operation including measures to				



Pass Criteria – All to be met		
 Demonstrate a clear understanding of their role and responsibilities in relation to the fault diagnosis to be conducted Provide an accurate technical explanation for the purpose and process of the fault's activity Demonstrate a clear plan for the diagnosis to be undertaken and an understanding of any 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 		



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					
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 award	led.
Questions Develop some open ended question	าร				



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 op	eratio	on and maintenance of appropriate pla	nt ar	nd 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 \Box		
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 principles to support their work decisions/activities			
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			

K2 Relevant industry health and safety standards, regulations, and environmental and regulatory requirements							
Pass Criteria – All to be met		Me	erit Criteria – Minimum two to be		Distinction Criteria – Minimum two to		
		m	et		be met		
A working knowledge of the		•	A detailed understanding of the		Excellent and thorough health,		
relevant health, safety and			relevant health, safety and		safety and environmental		
environmental regulations and			environmental regulations and		knowledge and understanding in		
standards and how they			standards by explaining		relation to the wider impact of		
impact the overall operation			additional technical detail e.g.		relevant industry working		
A clear understanding of their			how they influence how the work		practices and regulations for their		
responsibilities and those of			is planned and/or conducted		work activities		
others under the relevant		•	Conducting reviews of work		How they have taken a leading		
company policies and			health, safety and environmental		role in identifying health, safety		
procedures which apply to the			arrangements and their		and environmental deficiencies		





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





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			

K3 Maintenance and operational practices, processes and procedures covering a range of plant and equipment							
Pass Criteria – All to be met		Merit Criteria – Minimum two to k	е	Distinction Criteria - Minimum two to be			
		met		met			
A working knowledge of the		A detailed knowledge of the		An excellent and thorough			
maintenance requirements for		company maintenance		knowledge and understanding of $\;\;\;\;\;\;\;$			
the range of plant/ equipment		practices by explaining		relevant maintenance and			
worked on within their job role		additional technical detail for		operational practices/procedures			
A working knowledge of the		maintenance procedures on		for their job role			
company's operational		plant/equipment		An ability to analyse and provide			
processes and procedures	Ш	A detailed knowledge of the		valid justification for the			
and how these have		company operational		company's maintenance			
affected/influenced their		processes and procedures		procedures and/or operational			
maintenance work		which affect maintenance		practices for maintenance work on			
Their planning process for		operations by explaining		plant and equipment			
conducting maintenance		additional operational detail		A detailed technical/commercial			
operations and the factors				understanding of the effects of			





Develop some open ended questio	ns					
Questions						
Assessor must ask the following standardised questions.		Assessor must record all addition for clarification and the response apprentice including examples.	•	Recording timeline.	Mark award	led.
 which have influenced their 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 		A detailed knowledge of the range of testing procedures and the implications of the results obtained	conducting main procedures on Company plant cost, reliability, sustainability	/equipment e.	g.	





K4 The relevant engineering theories	K4 The relevant engineering theories and principles relative to their occupation							
Pass Criteria – All to be met		Me	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								





Assessor must ask the following standardised questions.			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 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		
How they have used tools/		accept additional		location/rectification to		
equipment/techniques to		responsibility/autonomy for the		improve/influence work		
inspect and identify faults on		fault work undertaken		outcomes		
plant/equipment and develop						
sound solutions while						
recognising and defining						
problems						





Develop some open ended question	ons				
Questions					
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 award	led.
tools/equipment/techniques to repair faults and confirm the rectification to the quality standards required by company policies/procedures How they have recorded / reported the results of fault- finding activities in line with Company procedures					
How they have used tools/equipment/techniques					ĺ





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 be met 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 questioned/clarified information A working knowledge of the which was unclear or incorrect range and type of technical 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 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		

S7 Inspect and maintain appropriate plant and equipment to meet operational requirements					
Pass Criteria – All to be met	met Merit Criteria – Minimum two to be Distinction Criteria – Min be met		Distinction Criteria – Minimum two to be met	0	
 How they have planned inspection and maintenance operations and the factors 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 		 Their ability to explain in detail the range of skills, knowledge and behaviours they have 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 		 An excellent knowledge/understanding in relation to 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 	









\$8 Communicate, handover and confirm that the appropriate engineering process has been completed to specification						
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met		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 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 		 How they have taken a proactive lead in the handover process by effectively communicating the detail of 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 		 How they have consulted/involved team members/other relevant persons to achieve greater understanding and improved performance 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 		





Questions Develop some open ended question	าร				
Assessor must ask the following standardised questions.		Assessor must record all additional questions aske for clarification and the response provided by the apprentice including examples.	d Recording timeline.	Mark awar	
line with relevant company policies and procedures How they have confirmed the recipient/s of the handover process fully understand any critical information given How they have completed the company process for reporting/ recording the handover of plant/equipment back into service in line with company procedures					





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	Di	stinction Criteria – Minimum two to	be
		be met		me	et	
A working knowledge of their		A detailed understanding		•	An excellent knowledge and	
responsibilities for the range of		of the range and technical			understanding in relation to the	
work activities within their job role		requirements of the plant			range and technical requirements	
How they have used company		and equipment worked on			of the plant and equipment worked	
policies/procedures/specifications		A detailed technical			on	
to conduct a range of position,		understanding for the		•	Their ability to explain/justify the	
assemble, install and dismantle		range of			Company methods	
work activities		methods/techniques used			/processes/procedures used for the	
How they have used tools and	_	for their position,			range of plant and equipment	
equipment to conduct a range of	Ш	assemble, install and			worked on	
position, assemble, install and		dismantle work activities		•	How they have taken a lead in	
dismantle activities in compliance		A detailed technical			accepting additional	
with specifications and regulatory		understanding for the			responsibility/autonomy to improve	
requirements		factors which can affect			the outcome of their	
How they have conducted the		their critical reasoning			position/assemble/install/dismantle	
required checks/test procedures		when making decisions to			work activities	
to confirm the completed work		resolve technical				
meets company/operational		problems				
requirements						





Questions Develop some open ended questions				-			
Assessor must ask the following standardised questions.		Assessor must record all ad asked for clarification and the by the apprentice including	ne re	sponse provided	Recording timeline.	Mark awar	ded.
 How they have used critical reasoning to identify and resolve technical problems within their control effectively during their range of work activities How they have reported/recorded the work conducted and returned the work area to a safe condition in line with company procedures 		How they have taken a proactive lead in organising/controlling their conducted work activities which has led to a successful completion					

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 t	0	Distinction Criteria – Minimum two to	0			
		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				range and technical maintenance				





•	How they have used company		requirements of the plant		requirements of the plant and	
	policies/procedures/specifications		and equipment worked on		equipment worked on	
	to conduct a range of	•	A detailed technical	•	Their ability to explain/justify the	
	maintenance procedures work		understanding for the range		company maintenance	
	activities		of methods/techniques		methods/processes/procedures	
•	How they have used tools and		used for maintenance work		used for the range of plant and	
	equipment to conduct a range of		undertaken		equipment worked on	
	maintenance procedures in	•	A detailed technical	•	How they have taken a lead in	
	compliance with all company		understanding for the		accepting additional	
	health, safety and environmental		factors which can affect		responsibility/autonomy to	
	processes, policies and		their critical reasoning when		improve the outcome of their	
	regulatory requirements		making decisions to resolve		maintenance work activities	
•	How they have conducted the		technical problems			
	required checks/test procedures	•	How they have taken a pro-			
	to confirm the completed		active lead in			
	maintenance work meets		organising/controlling their			
	company requirements		conducted work activities			
•	How they have used critical		which has led to a			
	reasoning to identify and resolve		successful completion			
	technical problems within their					
	control effectively during their					
	range of work activities					





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 standardised questions.	Assessor must record all additional questions asked for clarification and the response provided by the apprentice including examples.		Mark awarded.
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 met	e Distinction Criteria – Minimum two to be met
replace/repair activities undertaken	A detailed understanding of the methods and technical requirements for the range of plant and equipment replaced/repaired	An excellent knowledge and understanding in relation to the range and technical requirements of the plant and equipment replaced/repaired
policies/ 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	 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 	 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
health, safety and	reasoning when making decisions to resolve technical problems	improve the outcome of their replace/repair work activities









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 the EUIAS 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 EUIAS 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 EUIAS 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)					
			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	Assessor 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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