

Skills for a greener world

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

Supporting Documents

QAN 610/6007/0 ST0154 V1.4



Supporting Documents for

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

QAN 610/6007/0 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 – Plant Operations, 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: ST0154/1.4)

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 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:

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:

- 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 & Environment Awards use only:		
Energy & Environment Awards Sign off:		
Comments/actions:		



Appendix C: Practice Knowledge Assessments: Plant Operations

Page 8



Level: 3

Maintenance and Operations Engineering Technician

Pathway: Plant Operations

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

:

MARKING INSTRUCTIONS (a) (a) (b) (c) ■ ANSWER COMPLETED CORRECTLY Examples of how NOT to mark your examination sheet. These will not be recorded (a) (a) (b) (c) □ DO NOT partially shade the answer circle. (a) (a) (b) (c) □ DO NOT use ticks or crosses. (a) (a) (b) (c) □ DO NOT use circles. (a) (a) (b) □ □ DO NOT shade over more than one circle.

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.



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	e 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	

Question 3

Safety critical equipment should be maintained:

Possible 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	



Question 4		
Which s	tatement best describes what is meant by the terminology "specification"?	
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 do	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 technician say is low probability and low in impact?			
	Possible answers		A. B.
	a)	Α	
	b)	В	С. D.
	c)	С	
	d)	D	AAA

[Turn to the next page for question 12]



Question 12	
When p	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 accor	dance with HSE regulations, how would a technician know if a substance
was rega	arded as hazardous?
Possible	e 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	



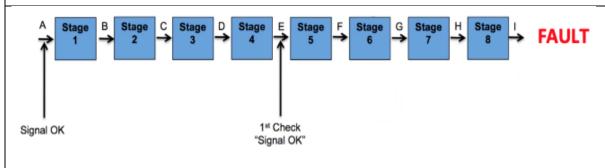
Question 15	
In accordance with HSE guidelines, isolations can only be applied by:	
Possible answers	
a)	competent people
b)	training and authorised people
c)	skilled people
d)	experienced people

Question 16		
Which m	Which manual handling statement is true?	
Possible	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?



Possibl	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)	СОЅНН



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 symbol represent?		
Possible answers		
a)	Electrical signal	
b)	Pneumatic signal	""""""
c)	Hydraulic signal	
d)	Instrument signal	



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

What service does this device apply to process fluids?

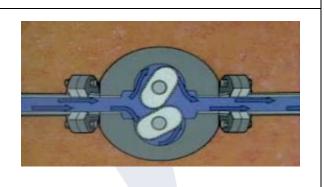
Possible answers		
a)	Pressure drop	
b)	Filtration	
c)	Temperature exchange	
d)	Mixing	



Question 23

What operating principle is used here to measure the rate of flow?

Possible answers		
a)	Differential pressure	
b)	Positive displacement	
c)	Venturi effect	
d)	Bourdon tube	





Question 24		
The terminology LO/LC is often used when applying which set of procedures?		
Possible answers		
a)	Inhibit/override	
b)	Isolation	
c)	Risk assessment	
d)	Manual handling	

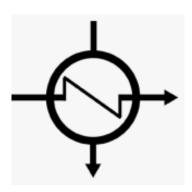
Questio	Question 25	
What eff	What effect does a Non Return Valve (NRV) have when located in a process	
Possible answers		
a)	Releases pressure at a given set point	
b)	Acts as a self-regulating pressure control valve	
c)	Restricts flow to one direction only	
d)	Aerates the fluid flowing through the pipework	

Question 26		
Which ONE of the following statements best defines the terminology "viscosity"?		
Possible answers		
a)	The degree of compactness of a substance	
b)	A substance that has no fixed shape	
c)	The state of being thick in consistency	
d)	Firm and stable in shape	



When seen on a piping and instrument drawing what does this symbol represent?

Possible answers		
a)	Electric heater	
b)	Heat exchanger	
c)	Check valve	
d)	Pressure safety valve	



Question 28

If fluid A has a higher specific gravity than fluid B and they are both contained in the same environment, which statement is true?

the same environment, which statement is true?			
Possible	Possible answers		
a)	Both liquids will mix together		
b)	Fluid B will gravitate to below fluid A		
c)	Fluid A will gravitate to below fluid B		
d)	An explosive atmosphere will be created		



Question 29			
	What operating principle does this instrument use to measure the level in the vessel?		
Possible answers			
a)	Differential pressure		
b)	Ultrasound		
c)	Radio waves		
d)	Capacitance		

Question 30			
	A pump is showing symptoms of higher than normal levels of both noise and vibration. What would commonly be the cause of this condition?		
Possibl	e answers		
a)	Increased pressure in line		
b)	Blockage in the discharge line		
c)	Higher than normal temperatures		
d)	Cavitation in pump		

End of Questions



Practice Knowledge Assessment

Plant Operations- 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

C C A B C
C A B C
B B C
B C
С
В
Α
С
С
С
В
С
D
D



SAMPLE ANSWER SHEET



Candidate ID	At	empt
Exam Date		Paper
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 no	t be recorded
	hade the answer circle.	
○ ○ ② ⊗ DO NOT use ticks	or crosses.	
○ ○ ○ O DO NOT use circle	rs.	
⊙ ⊙ ● ● DO NOT shade ov	er more than one circle.	
1 0 0 0 0	21 🛇 🗇 🗇 🗇	
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 0 0 0 0	
7 0 0 0 0	27 🛇 🗇 🔘 🔘	
8 0 0 0 0	28 0 0 0 0	
9 0 0 0 0	29 0 0 0 0	
10 0 0 0 0	30 0 0 0 0	
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 0 0 0 0		



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

Employer name and site address	
Training provider (if	
applicable) name and site	
address	
Standard	Maintenance and Operations Engineering
	Technician
Pathway	Plant Operations
Level	3
Location of practical	
Contact Details:	
Employer/training provider	
representative, email address and	
contact number overseeing the	
setup of the practical (documents	
and site).	
and site). Energy & Environment	
and site).	
and site). Energy & Environment Awards Date of review:	complex task(s):
and site). Energy & Environment	complex task(s):
and site). Energy & Environment Awards Date of review:	complex task(s):
and site). Energy & Environment Awards Date of review:	complex task(s):
and site). Energy & Environment Awards Date of review: Description of the proposed	complex task(s): imple: access arrangements and PPE):
and site). Energy & Environment Awards Date of review: Description of the proposed	
and site). Energy & Environment Awards Date of review: Description of the proposed	
and site). Energy & Environment Awards Date of review: Description of the proposed	
and site). Energy & Environment Awards Date of review: Description of the proposed	
and site). Energy & Environment Awards Date of review: Description of the proposed Special requirements (for example)	imple: access arrangements and PPE):
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and site). Energy & Environment Awards Date of review: Description of the proposed Special requirements (for example)	imple: access arrangements and PPE):
and site). Energy & Environment Awards Date of review: Description of the proposed Special requirements (for example)	imple: access arrangements and PPE):



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	
engineering process has been completed to specification Core Behaviours	Covered on activity
	Covered on activity
Core Behaviours 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	Covered on activity
Core Behaviours 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	Covered on activity



Covered on activity
e kept confidential one apprentice to



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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 practice practical obser	vation
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 be met	Pistinction Criteria – Minimum two to e met		
 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 		 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 		 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/ 	
 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 		 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 		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	
Comply with and apply safe systems of work and					



standardised questions. for clarification and the responses provided by the timeline.	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 timeline.	 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 				
apprentice including examples.			_	Mark awarde	
Questions	Questions				



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 met		Distinction Criteria – Minimum two be met	to
 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 Use and refer to the technical information provided to check/confirm the work conducted meets the required company standards/specifications Where necessary, 		 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 manner any areas of concern to clarify understanding Identify/suggest methods of improving the system/use of information 		 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 persons to achieve greater understanding and improved performance Demonstrate the ability to build positive relationships and actively address conflict with positive outcomes 	
question/clarify any information which is not clearly understood Complete any technical or supporting documentation in line with company policies/procedures					



S2 Communicate with and provide information to stakeholders in line with personal role and responsibilities								
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								

S3 Prepare work areas to undertake work related activities and reinstate those areas after the completion of the work-related activities Distinction Criteria - Minimum two to Pass Criteria - All to be met Merit Criteria - Minimum two to be met be met Take a lead role in the Demonstrate an Demonstrate a deeper understanding of the preparation of the work area understanding of the importance of good proactively informing others on implications of good and poor matters which affect them preparation and the potential work preparation. e.g. In terms of cost, time, value, company outcomes of poor Produce a detailed work plan preparation reputation etc to support the organisation of Inspect and prepare the the work, including measures Demonstrate the ability to take work area and equipment to to deal with contingencies a lead in accepting additional be worked on in line with responsibility and autonomy to Demonstrate their ability to achieve/improve the work company develop positive professional policies/procedures being undertaken relationships with individuals Identify and implement any to support the work activity special precautions required

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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 Merit Criteria - Minimum two to be Distinction Criteria – Minimum two to Pass Criteria - All to be met be met met by the work activity or Make valid suggestions/ environment, where required recommendations to improve the planning/preparation of the Maintain good work activity housekeeping practices and a safe working environment throughout the 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



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

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



Pass Criteria – All to be met		Merit Criteria – Minimum two to be met		Distinction Crit be met	eria – Minimu	m two to
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		Demonstrate a detailed technical knowledge of the outcome of testing procedures and the implications of results obtained				
Assessor must ask the following standardised questions. Questions Develop some open ended question	S	Assessor must record all additional for clarification and the responses papprentice including examples.	•		Recording timeline.	Mark awarded



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 be met	to	
Demonstrate a clear understanding of their role and responsibilities for the fault location and rectification activity to be		Demonstrate a detailed understanding of the theory and principles of fault location and rectification operations		Demonstrate deeper technical knowledge of fault location and fault prevention e.g. costs, lost time, sustainability of equipment, company		
 undertaken Provide an accurate technical explanation of the company's fault location 		 Demonstrate a detailed understanding of cause and effect of faults and preventative measures Pro-actively works with others 		reputation Identify and implement tangible changes that improve the efficiency of the work		
 methods, processes and/or procedures Competently use the correct tools, equipment and 		to identify areas for improvement and follows through on agreed implementation		 Identify and take action to report or deal with issues of nonconformity/compliance 		
 methods to locate the rectify the fault/s in a timely manner Conduct the work in compliance with all relevant 		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	\boxtimes	
regulatory requirements and company policies and procedures				boning undertaken		



Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Crit	oria – Minimu	m two to
rass officia – All to be filet		met	be met		iii two to
 Complete the required tests/checks to confirm the 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 qualifor clarification and the responses proapprentice including examples.		Recording timeline.	Mark awarded
Questions					
Develop some open ended question	ons				

S6 Read, understand and interpret documentation	inforr	nation and work in compliance with techni	cal specifications and supporting
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		Demonstrate a detailed knowledge of the range and	



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 information provided to plan purpose of the technical and conduct the work information available Demonstrate a clear Identify inaccuracies/deficiencies in understanding of the purpose and use of the the technical information technical information provided and resolve/report provided for the work the situation Use and refer to the Challenge in a professional technical information manner any areas of concern provided to check/confirm to clarify understanding the work conducted meets Identify/suggest methods of the required company improving the system/use of standards/specifications information 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 information and work in compliance with technical specifications and supporting documentation						
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			erit Criteria – Minimum two to be et		Distinction Criteria – Minimum two to be met
 Demonstrate a clear 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 		•	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 the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the work being undertaken



ass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two be met	to
from relevant sources of energy Identify and inspect the plant/equipment to be worked on in line with company procedures	 Demonstrate the ability to develop positive professional relationships with individuals to support the work activity Identify areas for work improvement and implement 		
Correctly use tools, equipment and techniques to achieve the quality standards required by company policies/procedures	actions to improve work efficiencies		
Demonstrate consistent application of policies and procedures during the work activity			
Record/report the results of the inspection in line with company procedures			



\$7 Inspect and maintain appropriate plant and equipment to meet operational requirements					
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					

S8 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	
 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 		 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 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 	
Complete the required checks/tests to confirm the equipment meets the		 Demonstrate their ability to develop positive professional 		Demonstrate the ability to build positive relationships and actively address	



Pass Criteria – All to be met		Merit Criteria – Minimum two to be met		
company operational requirements for handover		relationships with individuals to support handover process		conflict/resolve problems with positive outcomes
Conduct the handover in compliance with all relevant policies and procedures		Confidently lead the handover process taking charge of the operation and resolving any		Demonstrate their ability to effectively communicate technical information across a
Clearly communicate the details of the handover including any additional requirements to the relevant parties		 issues within their role responsibility Adapts the method and style of communications to changing circumstances and 		wide range of stakeholders e.g. colleagues, management, briefings/meetings, external clients
Complete all relevant reporting/recording documentation in line with company procedures		need		
Leave the work area in a safe/secure condition for others				



\$8 Communicate, handover and confirm that the appropriate engineering process has been completed to specification							
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							

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



B1 Health and Safety			
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 met	ria – Minimu	m two to	
 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	ns				



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 propagate including examples.		Recording timeline.	Mark awarded
Questions Develop some open ended question	ns				

B4 Interpersonal skills				
Pass Criteria – All to be met	Merit	Criteria – Min	imum two to be	Distinction Criteria – Minimum two to
	met			be met
Gets along well with others and takes into account their needs and concerns				



B4 Interpersonal skills			
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			

B6 Sustainability and ethical behave	iour				
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Crite be met	m two to	
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 questio	ns				



B7 Risk awareness					
Pass Criteria – All 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 questions asked for clarification and the responses provided by the apprentice including examples.		Recording timeline.	Mark awarded
Questions Develop some open ended question	าร				

Pathway: Plant Operations Role Specialist Skills

PO1 Carry out planned operating p	PO1 Carry out planned operating procedures on plant and equipment						
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met		Distinction Criteria – Minimum two be met	to		
Demonstrate a clear understanding of their role and responsibilities in		Demonstrate a detailed technical knowledge of the		Demonstrate deeper technical/commercial knowledge of the			



elation to the work to be methods and processes used to conduct the work	equipment/operation e.g.
 Pro-actively works with others to identify areas for improvement and follows through on agreed implementation ompetently carry out rocedures to achieve the uality standards required to the company in a timely anner onduct the work in ompliance with all relevant egulatory requirements and ompany policies and rocedures Pro-actively works with others to identify areas for improvement and follows through on agreed implementation Make recommendations/suggestions to improve work efficiencies Produce a detailed work plan to support the work delivery including measures to deal with contingencies 	installation costs, technical requirements planning, sustainability of equipment etc Identify and implement tangible changes that improve the efficiency of the work being conducted



Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met		
 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 que for clarification and the responses provapprentice including examples.		Recording timeline.	Mark awarde
Questions					
Develop some open ended question	ns				

PO2 Monitor the perf	PO2 Monitor the performance of the plant and equipment						
Pass Criteria – All to be met					Distinction Criteria – Minimum two to		
		m	et	I	be met	1	
 Demonstrate a cle understanding of and responsibilities relation to the wood conducted Identify and give explanations of the 	their role es in rk to be	•	Demonstrate a detailed understanding of the process and principles of preventative maintenance Pro-actively works with others to identify areas for improvement and follows		Demonstrate deeper technical/commercial knowledge of the maintenance operation being undertaken e.g. installation costs, technical requirements,		



ass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to be met		
monitoring points of the process	through on agreed implementation	planning, corrective/preventative		
Demonstrate a clear plan for the work to be undertaken and an understanding of any safety / technical information	Make recommendations/ suggestions to improve work efficiencies Draduce a detailed work plan	Identify and implement tangible changes that improve the efficiency of the work being conducted		
given Competently monitor the performance of the plant/	Produce a detailed work plan to support the maintenance operation including measures to deal with contingencies	Identify and take action to report or deal with issues of non-conformity/compliance		
equipment to achieve the quality standards required by the company in a timely manner		Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the work		
Where necessary, take actions to rectify any deviations from normal operations in a timely and effective manner		being undertaken		
Complete the required checks and tests to confirm the work meets the				



PO2 Monitor the performance of the pla	nt and equipment			
Pass Criteria – All to be met	Merit Criteria – Minimum two to be Distinction Criteria – Minimum two to be met			m two to
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 awarded
Questions Develop some open ended questions				

Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two be met	to
 Demonstrate a clear understanding of their role and responsibilities in relation to the handover procedure 	 Demonstrate a detailed understanding of the technical principles of the handover process Demonstrate a detailed 	Demonstrate deeper technical / commercial analysis of the handover process e.g. efficiencies, cost savings, process improvement	[
 Confirm the level of detail to be handed over 	understanding of the potential limits/restrictions of the handover process	 Identify and implement tangible changes that improve 	[



PO3 Handover and accept respons	sibility	for plant and equipment		
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two be met	to
 Demonstrate a clear understanding of the point at which the handover must be facilitated Competently take responsibility for conducting the handover process in a controlled and timely manner 		 Pro-actively works with others to identify areas for improvement in the handover process Makes formal proposals to improve the handover process Produce a detailed work plan to support the handover process including measures to 	the efficiency of the handover process Identify and take action to report or deal with issues of non-conformity/compliance which affect the handover Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to	
 Keep all relevant parties informed with information that concerns them 		deal with contingencies	support the handover process	
Conduct the work in compliance with all relevant regulatory requirements and company policies				
Complete the required records of the handover process to meet the quality standards required by the company				



PO3 Handover and accept responsibility	y for 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:	



Pass Criteria – All to be met
A working knowledge of the principles of operation for the range of plant/equipment they are responsible for The primary purpose of the range of plant/equipment worked on e.g. what the plant / equipment worked on does How the plant/equipment interacts within the overall system The typical characteristics of healthy and unhealthy operation for the range of plant/equipment worked on and how to identify the difference How they have used their knowledge of plant and equipment 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 a	and regulatory requirements
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 relevant health, safety and environmental regulations and standards and how they impact the overall operation A clear understanding of their responsibilities and those of 	A detailed understanding of the relevant health, safety and environmental regulations and standards by explaining additional technical detail e.g. how they influence how the work is planned and/or conducted	Excellent and thorough health, safety and environmental knowledge and understanding in relation to the wider impact of relevant industry working practices and regulations for their work activities
others under the relevant company policies and procedures which apply to the range of work undertaken and describe why they are required	Conducting reviews of work health, safety and environmental arrangements and their applicability and adapting them for changing circumstances whilst still maintaining safety How they have readily accepted	 How they have taken a leading role in identifying health, safety and environmental deficiencies and then implementing the appropriate solution/s in line with Company policies/procedures
A knowledge of the company process/s and/or procedures	How they have readily accepted additional health, safety and	



Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criter be met	ia – Minimur	n two to
for achieving and maintaining safety when working on systems within their work role 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 which affect the critical reasoning when making risk assessment decisions A knowledge of the Company procedure/s for reporting safety concerns and emergencies		How they have behaviour/pract appropriate tec	tices using	insafe 🗆
Assessor must ask the following standardised questions.	Assessor must record all additional q clarification and the response provide apprentice including examples.		Recording timeline.	Mark awarded
Questions Develop some open ended questions				



Pass Criteria – All to be met	Merit Criteria – Minimum two t	o be	Distinction Criteria - Minimum two to b 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 company's operational processes and procedures and how these have affected/influenced their maintenance work Their planning process for conducting maintenance operations and the factors 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 detailed knowledge of the company maintenance practices by explaining additional technical detail for maintenance procedures on plant/equipment A detailed knowledge of the company operational processes and procedures which affect maintenance operations by explaining additional operational detail A detailed knowledge of the range of testing procedures and the implications of the results obtained 		 An excellent and thorough knowledge and understanding of relevant maintenance and operational practices/procedures for their job role An ability to analyse and provide valid justification for the company's maintenance procedures and/or operational practices for maintenance work on plant and equipment A detailed technical/commercial understanding of the effects of conducting maintenance procedures on Company plant/equipment e.g. cost, reliability, availability, sustainability



A knowledge of how their maintenance activities have impacted plant/equipment/others					
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	
Questions Develop some open ended question	ıs				

Pass Criteria – All to be met	_	Merit Criteria – Minimum two to b met	е	Distinction Criteria – Minimum two be met	to
 A working knowledge of the range of relevant operational theories and principles which underpin their work 		A detailed knowledge of the relevant operational theories and principles which have supported and/or influenced		An excellent and thorough knowledge and understanding of the relevant operational theories and principles relative to plant	
 A working knowledge of the basic effect/influence of the relevant operational theories and principles which directly underpin their work activities 		 their work activities How they have used relevant operational theories and principles to support / influence their work decisions/activities 		 and equipment in their job role How they have used their understanding of relevant operational theories and principles to make suggestions 	
The benefits of being able to identify and apply the differing		Their inclusion of operational formulae/theories/principles to		which have influenced or led to an improved performance	



Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Crite be met	ria – Minimur	n two to
operational theories and principles in relation to their job role e.g. maintenance inspections, fault finding • A working knowledge of how to apply the relevant operational formulae which can be used to support their work activities	support their technical explanations in relation to their work activities	How they have technical rese on relevant op and principles effects of curre technologies	arch which is learn arch which is learn archional theo to support the	pased ries
Assessor must ask the following standardised questions.	Assessor must record all additional for clarification and the response prapprentice including examples.	-	Recording timeline.	Mark awarded
Questions				
Develop some open ended questions				

Pass Criteria – All to be met	Merit Criteria – Minimum two to be r	net	Distinction Criteria – Minimum two be met	to
A working knowledge of the company policies and procedures for the location of faults on plant and equipment worked on	A detailed knowledge of the company processes and procedures by explaining additional technical detail for the fault location methods/procedures		An excellent knowledge/understanding in relation to fault location/rectification procedures within their job role	



S5 Locate, and rectify faults on pla	nt ar	nd equipment		
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	met	Distinction Criteria – Minimum two to be met
 A clear understanding of the company policies and procedures in relation to achieving the safe isolation of equipment from relevant sources of energy and maintaining safety from the system How they have used tools/ equipment/techniques to inspect and identify faults on plant/equipment and develop sound solutions while recognising and defining problems How they have used 		conducted on plant/ equipment/systems • A detailed understanding of the tools and equipment that can be used to identify and locate faults on plant/equipment/systems • Their ability to take a lead in fault finding/rectification activities and accept additional responsibility/autonomy for the fault work undertaken		 How they have used a range of methods to locate, and rectify faults on plant and equipment, with a detailed explanation/justification of their chosen methods How they have used their knowledge of fault location/rectification to improve/influence work outcomes
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-				



S5 Locate, and rectify faults on plant ar Pass Criteria – All to be met		Merit Criteria – Minimum two to be m	net	Distinction Crit	teria – Minimu	ım two	to
				be met			
finding activities in line with							
Company procedures							
Assessor must ask the following standardised questions.		Assessor must record all additional for clarification and the response proapprentice including examples.	-		Recording timeline.	Mark award	bek
Questions Develop some open ended questions	ons						

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 range and type of technical which was unclear or incorrect information/specifications



available and how they are used to support work activities How they have used company work information and technical		 met How they have reported/updated information which was not 	be met		
used to support work activities How they have used company					
specifications to conduct/support their work activities Describe how they have used Company information to		technically correct/accurate			
record/report the results of work carried out in line with company procedures sessor must ask the following andardised questions.		Assessor must record all additional que		Recording timeline.	Mark awarde
•	а	apprentice including examples.	-		



S7 Inspect and maintain appropriate	e plar	it and equipment to meet operational	l requ	uirements			
Pass Criteria – All to be met		Merit Criteria – Minimum two to b	е	Distinction Criteria – Minimum two to be met			
 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 		 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 		 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 			
 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 		 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 		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	1 two to
standardised questions. for clarification and the response provided by the timeline. award	the work completed met with Company operational requirements How they have reported/recorded the outcome of their inspection and				
apprentice including examples.	•		•		Mark awarded
	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	
A working knowledge of their role and responsibilities in the handover of the		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	



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



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

Pathway: Plant Operations Role Specialist Skills

Pass Criteria – All to be met					Distinction Criteria – Minimum two to be		
 A working knowledge of their responsibilities for the range of work activities within their job 		•	A detailed understanding of the range and technical requirements of the plant and		An excellent knowledge and understanding in relation to the range and technical operational		
role in line with company policies and procedures			equipment worked on		requirements of the plant and equipment worked on		



PO1 Carry out planned operating pro	ced	ures on plant and equipment		
Pass Criteria – All to be met		Merit Criteria – Minimum two to I met	be	Distinction Criteria – Minimum two to be met
 A working knowledge of where to obtain technical information in relation to the planned activities How they have used tools and equipment to conduct a range of operational activities in compliance with all company HSE requirements 		 A detailed technical understanding for the factors which can affect their critical reasoning when making decisions to resolve technical problems How they have taken a proactive lead in organising/controlling their 		 Their ability to explain/justify the Company operational methods/processes/procedures used for the range of plant and equipment worked on How they have taken a lead in accepting additional responsibility/autonomy to improve the outcome of their operational
How they completed the required procedures to confirm the operational conditions meet company requirements		conducted work activities which has led to a successful completion		work activities
How they have used critical reasoning to identify and resolve technical problems within their control effectively during their range of work activities				
How they reported/recorded the work conducted and returned the work area to a				



Pass Criteria – All to be met	Merit Criteria – Minimum two to be met	Distinction Criter met	n Criteria – Minimum two to		
safe condition in line with company procedures Assessor must ask the following	Assessor must record all additional	questions asked	Recording	Mark	
standardised questions.	for clarification and the response prapprentice including examples.	•	timeline.	awarded	
Questions					
Develop some open ended questions					

PO2 Monitor the performance of the Pass Criteria – All to be met	•	Merit Criteria – Minimum two to b	е	Distinction Criteria – Minimum two to be met)
 A working knowledge of their responsibilities and for the range of monitoring activities 		A detailed knowledge of the level of monitoring to be applied to specific plant and equipment		An excellent knowledge of the level of monitoring to be applied to specific plant and equipment	
 within their job role A working knowledge of where to obtain technical information relating to operating 		 How they made recommendations of improvements to the ways in which process plant and 		How they have identified and recommended operational changes that have subsequently been implemented	
specificationsHow they prioritise monitoring the performance of		equipment is monitoredHow they have identified and responded to operational		How their monitoring actions have prevented a shutdown of plant and equipment	



Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two			Ю.
plant/equipment to ensure operating conditions are within specification How will they ensure that regulatory requirements and company policies are achieved and maintained How they responded to non-compliances in operational conditions How they maintained clear and legible records of operational		changes thus preventing potential process shutdowns				
conditions in line with company procedures Assessor must ask the following		Assessor must record all additional	questions asked	Recording	Mark	
standardised questions.		for clarification and the response proapprentice including examples.	=	timeline.	awar	ded
Questions Develop some open ended question	S					



PO3 Handover and accept responsibility for plant and equipment **AND**

PO4 Respond to contingencies

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 and those of others in relation to the handover procedure		 A detailed understanding of the technical principles of the handover process How they pro-actively worked 		An excellent technical/commercial analysis of the handover process e.g. efficiencies, cost savings, process improvement
 How they facilitate the handover taking into account the relevant safety/technical requirements 		with others to identify areas for improvement in the handover process repaired How they produced a detailed		How they identified and implemented tangible changes that improved the efficiency of the handover process
 How they kept other relevant parties informed with information that concerns them How they have conducted the 		work plan to support the handover process including measures to deal with contingencies		How recommendations they identified to operational procedures were implemented
required checks / test procedures to confirm the plant / equipment worked on can be returned to operational service		A detailed understanding of their role and responsibilities in relation in responding to abnormal operational		
How they record and receive information at the point of handover		parameters and safety specifications How they followed emergency response procedures when		



PO3 Handover and accept responsibility for plant and equipment **AND** PO4 Respond to contingencies Pass Criteria - All to be met Merit Criteria - Minimum two to be Distinction Criteria – Minimum two to be met met safety conditions were A working knowledge of their role and responsibilities in compromised relation to responding to abnormal operational conditions and safety specifications How they would follow emergency response procedures when safety conditions were compromised Mark Assessor must ask the following Assessor must record all additional questions asked Recording standardised questions. for clarification and the response provided by the timeline. awarded. apprentice including examples. Questions Develop some open ended questions



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)			
			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	ssor 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	Assessor Comments:						

Core Behaviours

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



Pathway: Plant Operations Specific Skills

Ref.	Apprenticeship Standard Criteria		PORTFOLIO REVIEW (Apprentice Input)				
		1	2	3			
PO1	Carry out planned operating procedures on plant and equipment						
PO2	Monitor the performance of the plant and equipment						
PO3	Handover and accept responsibility for plant and equipment						
PO4	Respond to contingencies						
Asse	ssor Comments:	•					



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