

EPA Supporting Documents for

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













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Updates to the supporting documents	3
Appendix A: Glossary	4
Appendix B: Gateway Eligibility Form	5
Appendix C: Practice Knowledge Assessments: Plant Operations	8
Appendix D - Practical Observation and Planning Form	25
Appendix E: Practice Practical Observation Template	30
Appendix F: Practice Technical Interview Template	55
Appendix G: Portfolio Mapping Document	73



Updates to the supporting documents

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

Version	Date first published	Section updated	Page(s)
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:

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 th training provider (print name):	е	Signature:	Date:
Apprentice's name (pr	int):	Signature:	Date:
EUIAS use only:			
EUIAS Sign off:			
Comments/actions:			



Appendix C: Practice Knowledge Assessments: Plant Operations



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:

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

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

A B O NOT partially shade the answer circle
ANSWER COMPLETED INCORRECTLY

A B O NOT use ticks or crosses

ANSWER COMPLETED INCORRECTLY

DO NOT use circles

DO NOT shade over more than one answer circle

ANSWER COMPLETED INCORRECTLY

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	

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	



Questic	Question 4	
Which s	Which statement best describes what is meant by the terminology "specification"?	
Possibl	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	e answers		
a)	Planned		
b)	Preventative		
c)	Corrective		
d)	Shutdown		

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

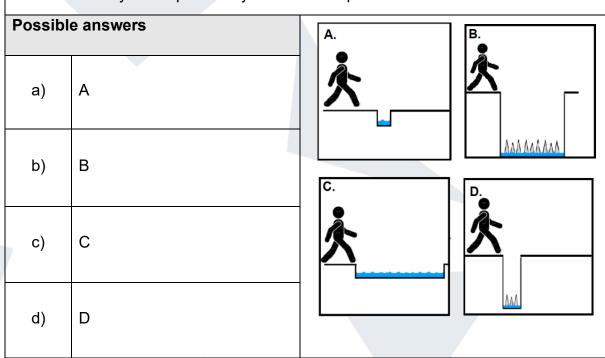
Question 8		
What does the coloured tag on a piece of rigging equipment mean?		
Possible answers		
a)	Certification period	
b)	Safe working load	
c)	Maximum working load	
d)	Safe to use	

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?



[Turn to the next page for question 12]



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

Question 13		
In accordance with HSE regulations, how would a technician know if a substance		
was reg	was regarded as hazardous?	
Possible answers		
a) The container will be coloured red		
b)	b) It will be contained in a glass receptacle	
c)	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



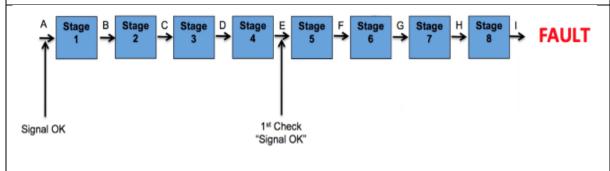
Question 15	
In accordance with HSE guidelines, isolations can only be applied by:	
Possible answers	
a)	competent people
b)	training and authorised people
c)	skilled people
d)	experienced people

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?	
Possible answers	
a)	PUWER
b)	COMAR
c)	LOLER
d)	соѕнн



What is being measured in this image?

Possib	le 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	-11
	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?

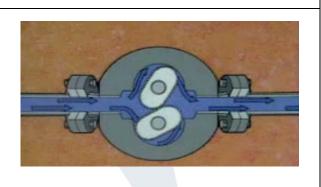
Possible answers			
a)	Pressure drop		
b)	Filtration		
c)	Temperature exchange		
d)	Mixing		



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	

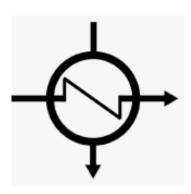
Question 25			
	What effect does a Non Return Valve (NRV) have when located in a process pipeline?		
Possible answers			
a)	Releases pressure at a given set point		
b)	Acts as a self-regulating pressure control valve		
c)	Restricts flow to one direction only		
d)	Aerates the fluid flowing through the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

Question 26			
Which C	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 sam	the same environment, which statement is true?		
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 op	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	A pump is showing symptoms of higher than normal levels of both noise and		
vibration	vibration. What would commonly be the cause of this condition?		
Possible	Possible 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

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



SAMPLE ANSWER SHEET



Candidate ID	Att	empt
The same of the sa		
Exam Date		Paper
The state of the s		
Centre Number		
MARKING INSTRUCTIONS		
Answers should be completed us	ing a HB pencil.	
○ ○ ○ ANSWER COMPLE	ETED CORRECTLY	
Examples of how NOT to mark your	examination sheet. These will no	t be recorded
⊙ ⊙ ⊙ DO NOT partially s	hade the answer circle.	
	or crosses.	
○ ○ ○ DO NOT use circle	is.	
	er more than one circle.	<u></u>
1 0 0 0 0	21 (3 (3 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5	
2 0 0 0 0	22 0 0 0 0	
3 0 0 0 0	23 🔘 🔘 🔘 🔘	
4 0 0 0 0	24 0 0 0 0	
5 0 0 0 0	25 🛇 🗇 🔘 🔘	
6 0 0 0 0	26 💿 🗇 🔘 🔘	
7 0 0 0 0	27 0 0 0 0	
8 0 0 0 0	28 0 0 0 0	
9 0 0 0 0	29 🛇 🗇 🔘 🔘	
10 0 0 0 0	30 🛇 🗇 🔘 🔘	
11 0 0 0 0		
12 0 0 0 0		
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18 🛇 🔘 🔘 🔘		
19 🛇 🗇 🔘 🔘		
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.

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) 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).	
EUIAS Date of review:	
Zowie Bate of Teview.	
Description of the proposed	complex task(s):
Description of the proposed	complex task(s).
Special requirements (for exa	mple: access arrangements and PPE):
(***	
7	
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	
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



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: Plant Operations Specialist Skills	
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	
Estimated total duration of practical (must be a minimum of 4 hours)	
 Remember: The specific detail of the tasks to be undertaken should be from the apprentices You will require differing tasks where you have more than be assessed 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 practice practical observ	ation
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	Criteria – All to be met Merit Criteria – Minimum two to be Distinction Criteria – Minimum be 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 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 	 Demonstrate a deeper understanding of the health, safety and environmental implications of the work e.g. potential effect of failure to comply, environmental, social, financial, company impact Take a lead role in managing the site safety of self and others Consistently demonstrate compliance with safety requirements and make suggestions to reduce risks Identify poor/bad practice in relation to work activities and address the situation 	 Demonstrate exemplary health, safety and environmental knowledge and performance throughout the activity Identify health, safety and environmental deficiencies and implement appropriate solutions Challenge unsafe behaviour/ practices using appropriate techniques Pre-empt risks prior to task commencement and puts actions in place to prevent them occurring Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to improve safety standards



Comply with and apply safe systems of work and maintain a safe working environment Inspect and use the appropriate tools and equipment Regularly re-assess the site conditions and take action when necessary to maintain site safety				
 Check to ensure the site is left in a safe/secure condition for others 				
Assessor must ask the following standardised questions.		Assessor must record all additional of for clarification and the responses prapprentice including examples.	Recording timeline.	Mark awarded.
Questions Develop some open ended question	ns			



	Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to 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 Use and refer to the technical information provided to check/confirm the work conducted meets the required company standards/specifications Where necessary, question/clarify any information which is not clearly understood Complete any technical or	 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



line with company policies/procedures		
Assessor must ask the following standardised questions.	Assessor must record all additional questions for clarification and the responses provided b apprentice including examples.	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 Pass Criteria – All to be met Merit Criteria - Minimum two to be Distinction Criteria – Minimum two to met be met Demonstrate an Take a lead role in the 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 preparation and the potential matters which affect them work preparation. e.g. In terms outcomes of poor of cost, time, value, company 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



Identify and implement any special precautions required		relationships with individuals to support the work activity					
 by the work activity or environment, where required Maintain good housekeeping practices and a safe working environment throughout the activity 		 Make valid suggestions/ recommendations to improve the planning/preparation of the work 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 							
standardised questions.		Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.		Recording Mark timeline.		ded.	



uestions
evelop some open ended questions

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



Questions Develop some open ended question	ns				
Assessor must ask the following standardised questions.		Assessor must record all additional questions for clarification and the responses provided by apprentice including examples.	Recording timeline.	Mark awarde	d.
Record/report the results of the testing in line with company procedures					
Accurately interpret the results of the tests conducted					
to conduct testing in line with company procedures					

Pass Criteria – All to be met		Merit Criteria – Minimum two to be met		Distinction Criteria – Minimum two to be met		
 Demonstrate a clear understanding of their role and responsibilities for the fault location and 		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		
rectification activity to be undertaken				equipment, company reputation		



technical o	n accurate explanation of the s fault location processes and/or	•	Demonstrate a detailed understanding of cause and effect of faults and preventative measures	•	Identify and implement tangible changes that improve the efficiency of the work being conducted	
tools, equ methods t	is at the correct ipment and o locate the rectify in a timely	•	Pro-actively works with others to identify areas for improvement and follows through on agreed implementation	•	Identify and take action to report or deal with issues of nonconformity/compliance Demonstrate the ability to take a lead in accepting additional	
compliand regulatory	ne work in se with all relevant requirements and policies and	•	Make recommendations/ suggestions to improve the location/rectification work activity		responsibility and autonomy to achieve/improve the work being undertaken	
tests/chec	the required ks to confirm the ication has been I					
of rectifica	e results/outcomes ition work in line any requirements	4				



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			

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 be met	to				
 Read and correctly interpret a range of technical information provided to plan and conduct the work 		Demonstrate a detailed knowledge of the range and purpose of the technical information available					
 Demonstrate a clear understanding of the purpose and use of the technical information provided for the work 		Identify inaccuracies/deficiencies in the technical information provided and resolve/report the situation					
 Use and refer to the technical information provided to check/confirm the work conducted meets 		Challenge in a professional manner any areas of concern to clarify understanding					



the required company standards/specifications • Where necessary, question/clarify any information which is not clearly understood • Complete any technical or supporting documentation in line with company policies/procedures		Identify/suggest methods of improving the system/use of information			
Assessor must ask the following standardised questions.		Assessor must record all additional for clarification and the responses papprentice including examples.	-	Recording timeline.	Mark awarded.
Questions Develop some open ended question	าร				

S7 Inspect and maintain appropriate plant and equipment to meet operational requirements							
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to				
		met		be met			
Demonstrate a clear understanding of the company polices/procedures for the inspection of plant		Demonstrate a detailed technical knowledge of the range of required inspections		Demonstrate a deeper technical understanding of inspection/maintenance operations. e.g. In terms of			



	and equipment to be worked on	and maintenance procedures and their specific purpose	cost, time, environmental impact, sustainability etc
•	Demonstrate a clear understanding of the company polices/procedures in relation to achieving the safe isolation of equipment	Pro-actively works with others to identify areas for improvement and follows through on agreed implementation	Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the work being undertaken
•	from relevant sources of energy Identify and inspect the plant/equipment to be	Demonstrate the ability to develop positive professional relationships with individuals to support the work activity	
	worked on in line with company procedures	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			
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 returning the system/equipment back to	Demonstrate a detailed understanding of the factors which can support and influence a smooth handover of equipment	Demonstrate the ability to take a lead in accepting additional responsibility and autonomy to achieve/improve the handover process	
 Provide an accurate technical explanation of the company's handover procedure 	Take a pro-active lead in effectively communicating the detail of handover arrangements with stakeholders	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 company operational requirements for handover	 Demonstrate their ability to develop positive professional relationships with individuals to support handover process Confidently lead the handover 	Demonstrate the ability to build positive relationships and actively address conflict/resolve problems with positive outcomes	
 Conduct the handover in compliance with all relevant policies and procedures Clearly communicate the details of the handover including any additional 	process taking charge of the operation and resolving any issues within their role responsibility Adapts the method and style of communications to	Demonstrate their ability to effectively communicate technical information across a wide range of stakeholders e.g. colleagues, management, briefings/meetings, external clients	



requirements to the relevant parties		changing circumstances and need		
Complete all relevant reporting/recording documentation in line with company procedures				
Leave the work area in a safe/secure condition for others				
Assessor must ask the following standardised questions.		Assessor must record all additional questions as for clarification and the responses provided by th apprentice including examples.	_	Mark awarded
Questions Develop some open ended question	ns			

B1 Health and Safety						
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Criteria – Minimum two to			
7		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 met	Distinction Criteria – Minimum two to be met		
Ensures that work achieves quality standard both occupationally and personally					
Assessor must ask the following standardised questions.				Recording timeline.	Mark awarded.



Questions Develop some open ended question	ıs				
B3 Working with others					
Pass Criteria – All to be met		Merit Criteria – Minimum two to be met	Distinction Crite be met	ria – Minimu	m two to
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	S				
B4 Interpersonal skills					
Pass Criteria – All to be met		Merit Criteria – Minimum two to be	Distinction Crite	ria – Minimu	m two to

be met

met



9	Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.
ons			
	g ons	for clarification and the responses provided by the apprentice including examples.	for clarification and the responses provided by the apprentice including examples.

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



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

Pathway: Plant Operations Role Specialist Skills

PO1 (PO1 Carry out planned operating procedures on plant and equipment							
Pass Criteria – All to be met			Merit Criteria – Minimum two to be			Distinction Criteria – Minimum two to		
			me	t		be met		
• De	emonstrate a clear		•	Demonstrate a detailed		Demonstrate deeper		
un	derstanding of their role			technical knowledge of the		technical/commercial		



_	1 990 -	l	0 1 1	1		1 1
	and responsibilities in		methods and processes used		knowledge of the	
	relation to the work to be		to conduct the work		equipment/operation e.g.	
	conducted		 Pro-actively works with others 		installation costs, technical	
•	Demonstrate a clear plan for		to identify areas for		requirements planning,	
	the work to be undertaken		improvement and follows		sustainability of equipment etc	
	and an understanding of any		through on agreed		Identify and implement	
	safety/technical information		implementation		tangible changes that improve	
	given		•		the efficiency of the work	
			Make		being conducted	
•	Competently carry out		recommendations/suggestions			
	procedures to achieve the		to improve work efficiencies		,	
	quality standards required		Produce a detailed work plan		report or deal with issues of	
	by the company in a timely		to support the work delivery		nonconformity/compliance	
	manner		including measures to deal		Demonstrate the ability to take	
•	Conduct the work in		with contingencies		a lead in accepting additional	
	compliance with all relevant		S .		responsibility and autonomy to	
	regulatory requirements and				achieve/improve the work	
	company policies and				being undertaken	
	procedures				being undertaken	
	•					
•	Where necessary, deal					
7	effectively with any issues					
	within their role					
	responsibilities, where					
	necessary					
•	Complete the required					
	checks and tests to confirm					
		l				j .



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 awarded.
Questions			
Develop some open ended questions			



Pass Criteria – All to be met
 Demonstrate a clear understanding of their role and responsibilities in relation to the work to be conducted Identify and give explanations of the main monitoring points of the process Demonstrate a clear plan for the work to be undertaken and an understanding of any safety / technical information given Competently monitor the performance of the plant/ equipment to achieve the quality standards required by the company in a timely manner Where necessary, take actions to rectify any



deviations from normal operations in a timely and effective manner Complete the required checks and tests to confirm the work meets the accuracy, finish and quality				
Assessor must ask the following standardised questions. Questions		Assessor must record all additional questions asked for clarification and the responses provided by the apprentice including examples.	Recording timeline.	Mark awarded.
Develop some open ended question	ns			

Pass Criteria – All to be met					Distinction Criteria – Minimum two to be met		
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 deeper technical / commercial analysis of the		



•	Confirm the level of detail to be handed over Demonstrate a clear understanding of the point at which the handover must be facilitated	•	Demonstrate a detailed understanding of the potential limits/restrictions of the handover process Pro-actively works with others to identify areas for	•	Identify and implement tangible changes that improve the efficiency of the handover process Identify and take action to report or deal with issues of	
•	Competently take responsibility for conducting the handover process in a controlled and timely	•	improvement in the handover process Makes formal proposals to improve the handover process	•	non-conformity/compliance which affect the handover Demonstrate the ability to take a lead in accepting additional	
•	manner Keep all relevant parties	•	Produce a detailed work plan to support the handover		responsibility and autonomy to support the handover process	
	informed with information that concerns them Conduct the work in		process including measures to deal with contingencies			
•	compliance with all relevant regulatory requirements and company policies					
7	Complete the required records of the handover process to meet the quality standards required by the					
	company					



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



Appendix F: Practice Technical Interview Template

This document is for use by the employer/provider person playing the role of the assessor during a practice technical interview. It is designed to help replicate the live assessment experience and to enable feedback to be provided to the apprentice. The practice technical interview must be conducted under examination conditions and recorded. The apprentice must be asked questions.

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

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

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

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



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



principles to support their work decisions/activities					
Assessor must ask the following standardised questions.	Assessor must record all additional for clarification and the responses papprentice including examples.	-	Recording timeline.	Mark award	ed.
Questions					
Develop some open ended questions					

K2 Relevant industry health ar Pass Criteria – All to be met	d safety	v standards, regulations, and environment Merit Criteria – Minimum two to be met	Distinction Criteria – Minimum two to		
 A working knowledge of the relevant health, safety and environmental regulations a standards and how they impact the overall operation A clear understanding of the responsibilities and those or 	nd	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 range of work undertaken a describe why they are required	ne 🗆	 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 taken a leading role in identifying health, safety and environmental deficiencies and then implementing the appropriate solution/s in line with	



 A knowledge of the company process/s and/or procedures for achieving and maintaining safety when working on systems within their work role and how they impact the work 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 readily accepted additional health, safety and environmental responsibility/autonomy to maintain/improve work safety standards	How they	have ′prac	ies/procedure challenged u tices using hniques		
Assessor must ask the following standardised questions. Questions Develop some open ended questions		Assessor must record all additional clarification and the response proviapprentice including examples.		for	Recording timeline.	Mark awar	



K3 Maintenance and operational practice Pass Criteria – All to be met	Merit Criteria – Minimum two to b	
 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 asked for clarification and the response provided by the apprentice including examples.	Recording timeline.	Mark awarded.
Questions			
Develop some open ended questions			

K4 The relevant engineering theories and principles relative to their occupation								
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 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				



 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 research on relevant operand principles effects of current technologies	arch which is lerational theo to support the	based ries	
Assessor must ask the following standardised questions.		Assessor must record all additionation for clarification and the response papprentice including examples.	•		Recording timeline.	Mark awai	c rded.
Questions							
Develop some open ended question	S						



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				
 A working knowledge of the company policies and procedures for the location of faults on plant and equipment worked on 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 		 A detailed knowledge of the company processes and procedures by explaining additional technical detail for the fault location methods/procedures 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 		 An excellent knowledge/understanding in relation to fault location/rectification procedures within their job role 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 					
How they have used 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			
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 question			

S6 Read, understand and interpret information and work in compliance with technical specifications and supporting documentation										
Pass Criteria – All to be met		Merit Criteria – Minimum two to be)	Distinction Criteria – Minimum two to						
		met		be met						
A working knowledge of the range of information which can be gained from company policies and procedures which affect their work		How they have taken a lead in interpreting/relaying technical information to progress work or support others understanding								



 A working knowledge of the range and type of technical information/specifications available and how they are used to support work activities How they have used company work information and technical specifications to conduct/support their work activities 	 How they have questioned/clarified information which was unclear or incorrect How they have reported/updated information which was not technically correct/accurate 	
Describe how they have used Company information to record/report the results of work carried out 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			
How they have planned inspection and maintenance operations and the factors which influenced their critical	Their ability to explain in detail the range of skills, knowledge and behaviours they have used to support their conducted Their ability to explain in detail the range of skills, knowledge and behaviours they have used to support their conducted	An excellent knowledge/understanding in relation to inspection/maintenance procedures within their job role			



reasoning/decisions during their planning process How they have implemented/complied with company operational processes and procedures during their conducted inspection and maintenance work How they have used tools/techniques/equipment to conduct maintenance inspection and maintenance procedures on a range of plant/equipment to meet	•	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 non- compliance during inspection/maintenance work operations	 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 	
 How they have used test equipment/procedures on plant/equipment to confirm that the work completed met with Company operational requirements How they have reported/recorded the outcome of their inspection and maintenance operations 				



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

Pass Criteria – All to be met	Merit Criteria – Minimum two to k met	Эе	Distinction Criteria – Minimum two to be met		
 A working knowledge of their role and responsibilities in the handover of the system/equipment/plant back to operational service 		How they have taken a pro- active lead in the handover process by effectively communicating the detail of handover arrangements with		How they have consulted/involved team members/other relevant persons to achieve greater understanding and improved performance	
 A working knowledge of the Company process for the handover of plant/equipment which has been worked on How they have completed the 		 stakeholders 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 Their ability to effectively 	
required checks/tests to confirm the plant/equipment/system worked on meets operational requirements before		 any issues within their role responsibility How they have adapted their communication method/style to better suit the changing 		communicate technical information across a wide range of stakeholders e.g. colleagues, management, briefings/meetings, external clients	



	conducting the handover		circumstances/needs of the				
	process		work				
•	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						
•	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 for clarification and the response papprentice including examples.	•	Recording timeline.	Mark awar		
Q	uestions						
D	evelop some open ended question	าร					



Pathway: Plant Operations Role Specialist Skills

PO1 Carry out planned operating procedures 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 their responsibilities for the range of work activities within their job role in line with company policies and procedures		A detailed understanding of the range and technical requirements of the plant and equipment worked on		An excellent knowledge and understanding in relation to the range and technical operational requirements of the plant and equipment worked on					
A working knowledge of where to obtain technical information in relation to the planned activities		A detailed technical understanding for the factors which can affect their critical reasoning when making decisions to resolve technical		Their ability to explain/justify the Company operational methods/processes/procedures used for the range of plant and					
 How they have used tools and equipment to conduct a range of operational activities in compliance with all company HSE requirements 		 Problems How they have taken a proactive lead in organising/controlling their conducted work activities 		 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		which has led to a successful completion		work activities					
How they have used critical reasoning to identify and resolve technical problems									



during their range of work activities How they 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. Questions	Develop some open ended questions				
activities How they 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 timeline.	Questions				
activities How they reported/recorded the work conducted and returned the work area to a safe condition in line with			for clarification and the response provided by the	_	
	 activities How they reported/recorded the work conducted and returned the work area to a safe condition in line with 				

Pass Criteria – All to be met	Merit Criteria – Minimum two to b	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 		How they made recommendations of improvements to the ways in		How they have identified and recommended operational changes that have subsequently been implemented	



•	relating to operating specifications How they prioritise monitoring the performance of plant/equipment to ensure operating conditions are within specification		•	which process plant and equipment is monitored How they have identified and responded to operational changes thus preventing potential process shutdowns	•	How their moni prevented a sh equipment	_		
•	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 conditions in line with company procedures								
Assessor must ask the following standardised questions.		fo	ssessor must record all addition record all addition and the response oprentice including examples.			Recording timeline.	Mark awar		
	uestions evelop some open ended question	ns							



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



conditions and safety specifications How they would follow emergency response procedures when safety conditions were compromised Assessor must record all additional questions asked for clarification and the response provided by the apprentice including examples. Ruestions						
conditions and safety specifications How they would follow emergency response procedures when safety	for clarification and the respon-	se pro	•		_	
role and responsibilities in relation to responding to abnormal operational						
relation to responding to		Assessor must record all addit for clarification and the respon	Assessor must record all additional of for clarification and the response pro	Assessor must record all additional questions asked for clarification and the response provided by the	Assessor must record all additional questions asked for clarification and the response provided by the Recording timeline.	Assessor must record all additional questions asked for clarification and the response provided by the Recording timeline.



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	ssor Comments:					



Core Skills

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



Core Behaviours

Dof	Apprenticeship Standard Criteria	PORTFOLIO			
		REVIEW			
Ref.		(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					
Assessor Comments:						



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