

Skills for a greener world

# **EUIAS L2 End-point Assessment Supporting Documents for**

Engineering Operative (Maintenance; Mechanical manufacturing; Electrical and electronic; Fabrication) QAN: 610/1779/6













# EUIAS Level 2 End-point Assessment Supporting Documents for

Engineering Operative (Maintenance; Mechanical manufacturing; Electrical and electronic; Fabrication) QAN: 610/1779/6

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## Updates to the supporting documents

Version	Date first published	Section updated	Page(s)
V3.0	19 July	New pathway introduced – Fabrication Role	All
	2023	Updated Appendix C – Practical Skills Observation Planning Form	P8
V2.0	24 May 2023	Rebranded	ALL
V1.0	1 March 2023	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 apprenticeship standard

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

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

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

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

**Skills (as part of KSBs)** – the practical application of knowledge identified as part of the apprenticeship standard that must be evidenced during end-point assessment

**Standard** – An occupational standard is a description of an occupation. It contains occupational profile, and describes KSBs needed for someone to be competent in the occupation's duties. Occupational standards are developed by employers for occupations that meet the Institute for Apprenticeships and Technical Education current occupation criteria

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



# Appendix B: Gateway Eligibility Form

(Standard Version: ST0537 version 1.0; Assessment Plan Version: ST0537/AP V1.1)

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	Y / N
end-point assessment for this	
apprenticeship standard with any other	
End Point Assessment Organisation?	
If "Yes" please give details:	

#### Apprentice's details

Eligibility requirements:

The apprentice must confirm their achievement of the following:

Eligibility requirement	Achieved by the apprentice? Y/N	Evidence (Scans of certificates MUST be included)
Achieved English Level 1		
Achieved maths Level 1		

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Achieved Level 2 Diploma in engineering operations (competence)	
Achieved Level 2	
engineering operations	
(knowledge)	
The employer must be	
apprentice has sufficient	
evidence in the form of a	
portfolio to allow the	
apprentice to consistently	
demonstrate KSBS	

#### 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 the mathematics and English requirements as detailed in this document.
- 6. The apprentice has achieved Level 2 Diploma in engineering operations (competence).
- 7. The apprentice has achieved Level 2 Certificate or Diploma in engineering operations (knowledge).
- 8. The apprentice will be ready to submit a portfolio of evidence to support the professional discussion at least 2 weeks prior to the professional discussion.
- 9. EUIAS has been informed about any reasonable adjustment and/or special considerations requests
- 10. 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.
- 11. The apprentice has been directed to the EUIAS Appeals Policy and Complaints



Policy.

- 12. The employer/training provider has given the EUIAS at least three months' notice of requesting this EPA for this apprentice.
- 13. If the Gateway Eligibility Report is not completed in full, meeting all requirements, and submitted to EUIAS, the end-point assessment cannot take place.

Signed on behalf of the employer (print name):	Signature:	Date:
Signed on behalf of the training provider (print name):	Signature:	Date:
Apprentice's name (print):	Signature:	Date:

EUIAS use only:		
EUIAS Sign off:		
Comments/actions:		



# Appendix C: Practical Skills Observation Planning Form

#### Instructions

This form has two purposes:

- 1. To help you plan a practice Practical Skills Observation for your apprentices
- 2. To inform EUIAS of the proposed task(s) for the live assessment

The apprentice is assessed:

- in their normal place of work in a suitable area away from the work-place OR
- in a simulated environment that reflects the real working environment and realist work situation
- A total of 2 hours + or 10 minutes is permitted for the practical skills observation with questioning
- Equipment and resources needed for the assessment must be in good and safe working condition

The activities should be designed to assess a broad range of the skills, knowledge and behaviours developed over the period of the apprenticeship. However, as a minimum the practical skills observation must cover the activities and KSBs listed in the Planning Form below.

EUIAS offers a service to review the employer/training provider's Practical Skills Observation task brief.

Task variations: If you have more than one apprentice being assessed, use the "Practical Task variations" section of the form to indicate what the task variations that will be put in place so that apprentices are not asked to complete identical tasks.

Complete the 'Practical Skills Observation Planning Form' and submit it to the Service Delivery team via <u>enquiries@euias.co.uk</u>, for **review 1 month before the start** of the end-point assessment.



#### Practical Skills Observation Planning Form

Engineering Operative
2

Use the boxes below to describe the task(s). Details for the individual KSBs can be found in the reference table on pages: 14 - 15.

Core knowledge covered in the task- Knows	how to complete t	asks, solve and/or
avoid, problems and implement preventive mea	sures in-line with	company
procedures, practices and processes:		

KSBs covered: K	1	K4	K5	

**Core Knowledge covered in the task** - Knows how to work towards company targets flexibly:



KSBs covered: K3
Select the option applicable to the apprentice's job role from the list below and
describe the task(s)
Option 1 – Maintenance Role Specialist Knowledge covered in the task-
Knows how to plan and carry out tasks in line with appropriate legislation,
regulation and environmental requirements and in line with company,
KSBs covered: K6 🔲 K8 🗌
Option 2 – Mechanical Manufacturing Role Specialist Knowledge covered in
the task - Knows the uses of a range of manufacturing equipment and the
associated quality outputs of that equipment:
KSBs covered: K9 🔲 K11 🗌
Option 3: Electrical and Electronic Engineering Role Specialist Knowledge
covered in the task - Knows the correct uses cables for a wide range of tasks in-
line with safe working practices and procedures:



KSBs covered: K12  K14
Option 4: Fabrication Role Specialist Knowledge covered in the task - Knows
how to prepare appropriately for tasks in-line with safe working practices and
procedures:
KSBs covered: K15 🗌 K17 🗌
Core Skills covered in the task - Works safely, efficiently and effectively at all
times ensuring that all appropriate legislation, regulation and environmental
compliance has been adhered to in-line with company policies, procedures and
practice:
<b>KSBs covered:</b> S1 S5 S6 S8 S8
Select the option applicable to the apprentice's job role from the list below and
describe the task(s)
Option 1 – Maintenance Role Specialist Skills covered in the task - Carries out
fault finding and maintenance activities in-line with company processes.
procedures and practice:



KSBs covered: S9 S10
Option 2 – Mechanical Maintenance Engineering Role Specialist Skills-
covered in the task - Produces parts to the required specification:
KSBs covered: S14 S15
Option 3 – Electrical and Electronic Engineering Role Specialist Skills
covered in the task - Tests and assembles parts to the required specification:
KSBs covered: S18 S19
<b>Option 4 – Fabrication Role Specialist Skills covered in the task -</b> Produces parts to the required specification:
KSBs covered: S22 S23
Practical Task Variations - Describe how you can vary this task to ensure that the
task does not become predictable.
Variation 1:
Variation 2:
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#### Variation 3:

Special requirements (for example: access arrangements/PPE):

Resources (for example: equipment/tools required):

Estimated total duration of practical task(s) must be 2 hours + or – 10 minutes.

Please state time for the practical task(s): \_\_\_\_

#### Remember:

• The specific detail of the tasks to be undertaken should be **kept confidential from the apprentices** 

Practical Task: Include relevant photographs to illustrate task(s)

#### EUIAS Office use only

Date received		
Date signed off		



#### Practical Skills Observation KSB Reference

This reference table will assist the employer and/or training provider identify the KSB.

#### **KSB** Reference

**K1** How to obtain the necessary job instructions, engineering drawings and specifications and how to interpret them

**K3** Their individual roles and responsibilities within the organisation and the flexibility required to support the achievement of company targets

K4 Engineering operational practices, processes and procedures

**K5** Potential problems that can occur within the engineering operations and how they can be avoided

K6 Maintenance planning

**K8** Specific safe working practices, maintenance procedures and environmental regulations that need to be observed environmental regulations that need to be observed

K9 Specific equipment operating parameters

**K11** Specific quality specifications for mechanical manufacturing operations

K12 Cable types and where they should be used

**K14** Specific safe working practices, isolation procedures and safe reinstating of equipment/system that need to be observed

**K15** Specific marking out and preparation techniques

**K17** Specific safe working practices, isolation procedures and safe

#### Core Skills

**S1** Work safely at all times, complying with health and safety legislation, regulations, environmental compliance procedures and systems and other relevant guidelines

S5 Obtain and follow the correct documentation, specifications and work

instructions in accordance with time constraints and the roles and responsibilities identified for the engineering activities, extracting the necessary data/information from specification and related documentation

**S6** Select and use appropriate tools, equipment and materials to carry out the engineering operation



**S8** Work efficiently and effectively at all times maintaining workplace organisation and minimising waste

**S9** Carry out fault location on appropriate equipment using suitable maintenance diagnostic techniques

**S10** Carry out maintenance activities in line with work instructions

**S14** Mount and set the required work holding devices

**S15** Produce individual components, sub-assemblies or completed assemblies using mechanical manufacturing techniques

**S18** Assemble and test a range of electrical components e.g. component panels, isolator switches, fuses, circuit breakers, contactors, relays, rail mounted terminal blocks, etc.

S19 Assemble and test a range of electronic components e.g. resistors,

**S22** Join the materials using the appropriate methods and techniques

**S23** Produce components which meet the specification requirements

#### **Core Behaviours**

B1 Personal responsibility and resilience:

Comply with the health and safety guidance and procedures, be disciplined and have a responsible approach to risk, work diligently regardless of how much they are being supervised, accept responsibility for managing time and workload and stay motivated and committed when facing challenges.



# Appendix D: Practice Practical Skills Observation Template

Employers/training providers are recommended to arrange for apprentices to carry out a practice Practical Skills Observation prior to end-point assessment. The form below is for use by the person playing the part of the independent assessor.

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

		Grade
Please indicate the apprentice's practic	ce practical skills	
observation grade (F/P):		

#### **Please Note:**

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

Fail: the apprentice does not demonstrate the pass criteria.

Assessor questions: during the live assessment, the assessor will ask between 3 and 6 open questions.



Core Knowledge	To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Pass - Check the box
	Demonstrates their knowledge of how to obtain the necessary job instructions, engineering drawings and specifications and how to interpret them.	
<b>K1</b> How to obtain the necessary job	Evidence including:	l
instructions, engineering drawings and specifications and how to interpret them	Can explain where to obtain the obtain the necessary job instructions, engineering drawings and specifications when questioned.	
<b>K4</b> Engineering operational practices, processes and procedures	Can interpret necessary job instructions, engineering drawings and specifications when questioned.	
<b>K5</b> Potential problems that can occur	Can outline the specific operational practices, processes and procedures relevant to their work activities when questioned.	
within the engineering operations and how they can be avoided	Can outline the potential problems that can occur within the engineering operations when questioned.	
	Can explain the actions that can be taken to avoid problems from occurring when questioned.	
Questions		
Develop some open ended questions		





Comments: (what was observed)	Summary of response to que	stion(s):
	Audio recording	
	reference/timeline	





Core Knowledge	To achieve a PASS the a following core pass and a specialist job role as laid	apprentice must achieve ALL of the ALL the pass criteria for one of the out below.	Pass – Check the box
	Demonstrates their know responsibilities and the fl achievement of company	/ledge of their individual roles and exibility required to support the / targets.	
<b>K3</b> Their individual roles and responsibilities within the organisation and the flexibility required to support the achievement of company targets	<b>Evidence including:</b> Can explain their individual roles and responsibilities when questioned. Can explain the importance of flexibility required to support the		
	achievement of company	/ targets when questioned.	
<b>Questions</b> Develop some open ended questions			
Comments: (what was observed)		Summary of response to question(s	):
		Audio recording reference/timeline	





Option 1: Maintenance Role Specialist Knowledge	To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Pass – Check the box
	Demonstrates their understanding of a maintenance operations.	
	Evidence including:	
K6 Maintenance planning K8 Specific safe working practices, maintenance procedures and environmental regulations that need to be observed	Use of technical language and detail covering the key elements of the knowledge relating to the maintenance activities they have been involved in when questioned.	
	Can describe the planning carried out prior to the start of the maintenance operation when questioned.	
	Can describe the specific safe working practices, maintenance procedures and environmental regulations that need to be observed when questioned.	
Questions		
Develop some open ended questions		
Comments: (what was observed)	Summary of response to question(s):	
	Audio recording reference/timeline	





Option 2: Mechanical Manufacturing Role Specialist Knowledge	To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Pass – Check the box
	Demonstrates their understanding of a mechanical manufacturing operations.	
	Evidence including:	
<ul><li>K9 Specific equipment operating parameters</li><li>K11 Specific quality specifications for mechanical manufacturing operations</li></ul>	Use of technical language and detail covering the key elements of the knowledge relating to the mechanical manufacturing activities they have been involved in when questioned.	
	Can describe the specific equipment operating parameters when questioned.	
	Can describe the specific quality specifications for mechanical manufacturing operations.	
Questions		I
Develop some open ended questions		
Comments: (what was observed)	Summary of response to question(s):	
	Audio recording reference/timeline	





Option 3: Electrical and Electronic Engineering Role Specialist Knowledge	To achieve a PASS the app following core pass and AL specialist job role as laid ou	prentice must achieve ALL of the L the pass criteria for one of the ut below.	Pass – Check the box
	Demonstrates their underst engineering operations.	tanding of electrical and electronic	
	Evidence including:		
<ul><li>K12 Cable types and where they should be used</li><li>K14 Specific safe working practices, isolation procedures and safe reinstating of equipment/system that need to be observed</li></ul>	Use of technical language and detail covering the key elements of the knowledge relating to the electrical and electronic engineering activities they have been involved in when questioned.		is of
	Can describe the different cable types and where they have used them when questioned.		sed
	Can describe the specific safe working practices, isolation procedures and safe reinstating of equipment/system that need to be observed.		d to
Questions			
Develop some open ended questions			
Comments: (what was observed)	S	Summary of response to question	ı(s):
	A ru	Audio recording eference/timeline	





Option 4: Fabrication Role Specialist Knowledge	To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Pass – Check the box
	Demonstrates their understanding of fabrication operations.	
	Evidence including:	
<ul> <li>K15 Specific marking out and preparation techniques</li> <li>K17 Specific safe working practices, isolation procedures and safe reinstating of equipment or system that need to be</li> </ul>	Can use technical language and detail the key elements of the knowledge relating to the fabrication activities they have been involved in when questioned.	
	Can describe the marking out and preparation techniques and where they have used them when questioned.	
observed	Can describe the specific safe working practices, isolation procedures and safe reinstating of equipment or system that need to be observed.	
Questions		<u> </u>
Develop some open ended questions		
Comments: (what was observed)	Summary of response to question(s):	
	Audio recording reference/timeline	





Core Skills	To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Pass – Check the box
	Demonstrates their ability to work safely in an engineering environment to approved procedures.	
<b>S1</b> Work safely at all times, complying with health and safety legislation, regulations, environmental compliance procedures and systems and other	<b>Evidence including:</b> Can identify, assess and control health and safety risks within work environment as per company procedures and guidelines and record the necessary information appropriately.	
relevant guidelines <b>S5</b> Obtain and follow the correct documentation, specifications and work instructions in accordance with time constraints and the roles and responsibilities identified for the	Can work efficiently and effectively while adhering to appropriate job instructions.	
engineering activities, extracting the necessary data/information from specification and related documentation	Can select and use appropriate tools, equipment and materials to carry out the engineering operations.	
equipment and materials to carry out the engineering operation		





S8 Work efficiently and effectively at all times maintaining workplace organisation and minimising waste	Can deal with problems that occur within the engineering environment.	
<b>Questions</b> Develop some open ended questions		
Comments: (what was observed)	Summary of response to quest	tion(s):
	Audio recording reference/timeline	





Option 1: Maintenance Role Specialist Skills	To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.		Pass – Check the box	
	Demonstrates their ability with work instructions.	v carry out maintenance activities i	in line	
	Evidence including:			
<b>S9</b> Carry out fault location on appropriate equipment using suitable maintenance diagnostic techniques	Follows the correct work commitments and shows place within the instruction	instructions as part of their work an understanding of any operating n.	g rules in	
<b>S10</b> Carry out maintenance activities in line with work instructions	Carries out fault location using suitable diagnostic techniques.		les.	
Questions				
Develop some open ended questions				
Comments: (what was observed)		Summary of response to quest	tion(s):	
		Audio recording reference/timeline		





Option 2: Mechanical Manufacturing Engineering Role Specialist Skills	To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.		
	Demonstrates their ability to produce components sub-assemblies or completed assemblies to the required specification.		
	Evidence including:		
<b>S14</b> Mount and set the required work holding devices	Mounts and sets the required work holding devices.		
<b>S15</b> Produce individual components, sub-assemblies or completed assemblies using mechanical manufacturing techniques	Follows the appropriate mechanical manufacturing techniques to produce individual components, sub-assemblies or completed assemblies, showing an understanding of the techniques used.		
Questions			
Develop some open ended questions			
Comments: (what was observed)	Summary of response to question(s):		
	Audio recording		
Manufacturing techniques         Questions         Develop some open ended questions         Comments: (what was observed)	Summary of response to question(s):         Audio recording         reference/timeline		





Option 3: Electrical and Electronic Engineering Role Specialist Skills	To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	
	Demonstrates their ability to assemble and test a range of electrical and electronic components. <b>Evidence including:</b>	
<b>S18</b> Assemble and test a range of electrical components e.g. component	Follows the appropriate electrical assembly and testing, showing an understanding of the techniques used.	
breakers, contactors, relays, rail mounted terminal blocks, etc.S19 Assemble and test a range of electronic components e.g. resistors, capacitors, diodes, transistors, etc.	Follows the appropriate electronic assembly and testing, showing an understanding of the techniques used.	
Questions		
Develop some open ended questions		
Comments: (what was observed)	Summary of response to question(s):	
	Audio recording reference/timeline	





Option 4: Fabrication Role Specialist Skills	To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	
<ul><li>S22 Join the materials using the appropriate methods and techniques</li><li>S23 Produce components which meet the specification requirements</li></ul>	Demonstrates their ability to produce components which meet the specification requirements. <b>Evidence including:</b> Follows correct work instructions to produce components as part of their work commitments and shows an understanding of any operating rules in place within the instruction. Can produce components which meet the specification requirements Can join the materials using the appropriate methods and techniques	
<b>Questions</b> Develop some open ended questions		
Comments: (what was observed)	Summary of response to question(s):	
	Audio recording reference/timeline	





Core Behaviours	To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.		
<b>B1</b> Personal responsibility and resilience Comply with the health and safety guidance and procedures, be disciplined and have a responsible approach to risk, work diligently regardless of how much they are being supervised, accept responsibility for managing time and workload and stay motivated and committed when facing challenges	Demonstrates they comply with Health, Safety guidance and procedures. <b>Evidence including:</b> Always demonstrates understanding and importance of Health and Safety requirements. Dynamically assesses/controls risk in current environment.		
<b>Questions</b> Develop some open ended questions			
Comments: (what was observed)	Summary of response to question(s)           Audio recording		
	reference/timeline		





### Appendix E: Practice Professional Discussion Template

Employers/training providers are recommended to arrange for apprentices to carry out a practice Professional Discussion prior to end-point assessment. The form below is for use by the person playing the part of the independent assessor.

Name of Apprentice	
Location(s) of Practice Professional Discussion	
Name of Independent Assessor	
Date of Practice Professional Discussion	
Start Time	
End Time	
Independent Assessor: Additional Comments	

	Grade
Please indicate the apprentice's practice professional discussion grade (F/P/D):	



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#### **Please Note:**

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

Fail: the apprentice does not demonstrate the pass criteria.

To achieve a Distinction, the Apprentice must achieve all the pass and the distinction criteria for the specialist job role they are working towards.

Fail: the apprentice does not demonstrate the pass criteria

During the live assessment, the assessor will ask between 5 and 7 open ended questions.



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Core Knowledge	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Achieved Check the box	Distinction Criteria To achieve a distinction the apprentice must achieve ALL of the pass and ALL the distinction criteria for the specialist job role they are working towards.	Achieved Check the box
<b>K2</b> Relevant statutory, quality, environmental compliance procedures/systems, organisational and health and safety regulations relating to engineering operations	Demonstrates their understanding of statutory, quality, environmental compliance procedures, systems, organisational and health and safety regulations. <b>Evidence including:</b> Able to outline the specific statutory, quality, environmental compliance procedures/systems, organisational and health and safety regulations relevant to their work activities.		N/A	N/A
Questions				
Develop some open ended	d questions			
Timeline reference:	Portfolio reference:			
Comments				





Core Knowledge	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Achieved Check the box	Distinction Criteria To achieve a distinction the apprentice must achieve ALL of the pass and ALL the distinction criteria for the specialist job role they are working towards.	Achieved Y/N*
	Demonstrates their understanding of		N/A	N/A
	improvement techniques.			
practices	Evidence including:			
processes and	Able to outline the specific operational			
procedures	practices, processes and procedures			
	relevant to their work activities			
Questions		I		
Develop some open	ended questions			
Timeline reference:		Port	tfolio reference:	
Commonts				
Comments				





Option 1: Maintenance Role Specialist Knowledge	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Achieved Check the box	Distinction Criteria To achieve a distinction the apprentice must achieve ALL of the pass and ALL the distinction criteria for the specialist job role they are working towards.	Achieved Check the box
	Demonstrates their understanding of a maintenance operations.		Use of technical language and detail to give an in-depth* explanation of the key elements relating to knowledge in the	
<ul> <li>K6 Maintenance planning</li> <li>K7 Diagnostic and fault finding techniques</li> </ul>	Evidence including: Use of technical language and detail covering the key elements of the knowledge relating to the maintenance activities they have been involved in. Can describe the planning carried out prior		maintenance activities they have been involved in. In-depth* = explanation includes detail of key aspects of the work they have carried out and can answer questions using relevant detail e.g., processes, equipment, materials used and the	
Questions	Can describe the diagnostic and fault finding techniques they used and the reason for using them.			

Develop some open ended questions



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Timeline reference:	Portfolio reference:	
Comments		





Option 2: Mechanical Manufacturing Role Specialist Knowledge	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Achieved Check the box	Distinction Criteria To achieve a distinction the apprentice must achieve ALL of the pass and ALL of the distinction criteria for the specialist job role they are working towards.	Achieved Check the box
K9 Specific equipment operating parameters K10 Mechanical manufacturing techniques	Demonstrates their understanding of a mechanical manufacturing operations. <b>Evidence including:</b> Use of technical language and detail covering the key elements of the knowledge relating to the mechanical manufacturing activities they have been involved in. Can describe the specific equipment operating parameters. Can describe the mechanical manufacturing techniques they have used.		Use of technical language and detail to give an in-depth* explanation of the key elements relating to knowledge in the mechanical manufacturing activities they have been involved in. In-depth* = explanation includes detail of key aspects of the work they have carried out and can answer questions using relevant detail e.g., processes, equipment, materials used and the reason behind their use.	
<b>Questions</b> Develop some open	ended questions			





Timeline reference:	Portfolio reference:	
Comments		I





Option 3: Electrical and Electronic Engineering Role Specialist Knowledge	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Achieved Check the box	Distinction Criteria To achieve a distinction the apprentice must achieve ALL of the pass and ALL of the distinction criteria for the specialist job role they are working towards.	Achieved Check the box
K12 Cable types and where they should be used K13 Electrical and electronic assembly and testing techniques	Demonstrates their understanding of electrical and electronic engineering operations. <b>Evidence including:</b> Use of technical language and detail covering the key elements of the knowledge relating to the electrical and electronic engineering activities they have been involved in. Can describe the different cable types and where they have used them. Can describe the electrical and electronic assembly and testing techniques they have used.		Use of technical language and detail to give an in-depth* explanation of the key elements relating to knowledge in the electrical and electronic engineering activities they have been involved in. In-depth* = explanation includes detail of key aspects of the work they have carried out and can answer questions using relevant detail e.g., processes, equipment, materials used and the reason behind their use	





# Questions Develop some open ended questions Time reference: Portfolio reference: Comments



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Option 4: Fabrication Role Specialist Knowledge	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Achieved Check the box	Distinction Criteria To achieve a distinction the apprentice must achieve ALL of the pass and ALL of the distinction criteria for the specialist job role they are working towards.	Achieved Check the box
	Demonstrates their understanding of electrical and electronic engineering operations. Evidence including:		Use of technical language and detail to give an in-depth* explanation of the key elements relating to knowledge in the electrical and electronic engineering activities they have been involved in.	
<ul> <li>K15 Specific marking out and preparation techniques</li> <li>K16 Different fabrication and joining techniques</li> </ul>	Can use technical language and detail the key elements of the knowledge relating to the materials, processing, finishing activities they have been involved in. Can describe the machinery, equipment and tooling required for the materials, processing, finishing operation and where they have used them.		In-depth* = explanation includes detail of key aspects of the work they have carried out and can answer questions using relevant detail e.g., processes, equipment, materials used and the reason behind their use	
	Can describe the different materials, processing, finishing techniques.			





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Core Skills	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below	Achieved Check the box	Distinction Criteria To achieve a distinction the apprentice must be able to achieve all of the pass criteria and at least 2 of the 3 core skills distinction criteria as laid out below and the distinction criteria for the specialist job role they are working towards	Achieved Check the box
<b>S1</b> Work safely at all times, complying with health and safety legislation, regulations, environmental	Demonstrates their ability to work safely in an engineering environment to approved procedures. <b>Evidence including:</b> Can complete documentation accurately, efficiently and legibly using the correct terminology. Can plan and Prepare prior to starting		Demonstrates they have the ability to take on additional safety responsibilities, over and above the expectation of an engineering environment. <b>Evidence including:</b> Challenges other people on Health and Safety compliance, where appropriate. Can dynamically assesses/controls risk at all times regardless of environment.	
compliance procedures and systems and other relevant guidelines	engineering activity.		Can suggest ideas for improvement along with possible solutions.	





S2 Identify and deal appropriately with any risks, hazards, hazardous situations and problems that may occur within the engineering environment within the limits of their responsibility	Can identify, assesses/ and controls risk vithin work environment.		
S6 Select and C use appropriate end tools, equipment end and materials to carry out the engineering operation	Can select and use appropriate tools, equipment and materials to carry out the engineering operations.		
S7 Deal appropriately	Can use effective communication using a ange of techniques.		





with any problems that may occur within	Can deal with pr the engineering	oblems that occur wi environment.	ithin		
manufacturing environment within the limits of their responsibility	Can work efficie adhering to appr	ntly and effectively w opriate job instructio	/hile ns.		
Questions					-1
Develop some open	ended questions				
Time reference:			Portfolio re	ference:	
Comments			·		





Core Skills	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the following core pass and ALL the pass criteria for one of the specialist job role as laid out below.	Achieved Check the box	Distinction Criteria To achieve a distinction the apprentice must be able to achieve all of the pass criteria and at least 2 of the 3 core skills distinction criteria as laid out below and the distinction criteria for the specialist job role they are working towards	Achieved Check the box
	Demonstrates their ability to work safely in an engineering environment to approved procedures.		N/A	N/A
<b>S3</b> Demonstrate effective communication skills which include oral, written, electronic	Evidence including: Can use effective communication using a range of techniques.			
<b>S4</b> Complete appropriate documentation accurately efficiently and legibly using the correct	Can complete documentation accurately, efficiently and legibly using the correct terminology.			





terminology where required					
Questions Develop some open ended questions					
Timeline reference:		Portfolio reference:			
Commente					
Comments					





Option 1: Maintenance Role Specialist Skills	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the core pass criteria and ALL the pass criteria for one of the specialist job role as laid out below.	Achieve d Check the box	Distinction Criteria To achieve a distinction the apprentice must be able to achieve all of the pass criteria and at least 2 of the 3 core skills distinction criteria as laid out above and the distinction criteria for the specialist job role they are working towards	Achieved Check the box
	Demonstrates their ability carry out maintenance activities in line with work instructions.		Demonstrates that they can consistently carryout fault finding and maintenance efficiently and can overcome problems	
	Evidence including:			
<b>S9</b> Carry out fault location on appropriate equipment using suitable maintenance diagnostic techniques	Carries out fault location using suitable diagnostic techniques.			
<b>S10</b> Carry out maintenance activities in line with work instructions	Provides evidence of having followed the correct work instructions as part of their work commitments and shows an understanding of any operating rules in place within the instruction.			
<b>S11</b> Carry out tests on the maintained equipment in	Carries out sufficient tests on the maintained equipment.			
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accordance with test schedule/defined test procedures	Carries out correct completion activities and restores equipment to a serviceable condition.					
completion activities and						
restore equipment to service						
by replacing or repairing						
components						
Questions			1		I	
Develop some open ended qu	stions					
Timeline reference:	Portfolio refere	ence:				
Comments				1		
S12 Follow appropriate completion activities and restore equipment to service by replacing or repairing components Questions Develop some open ended que Timeline reference:	stions Portfolio refere	ence:				





Option 2: Mechanical Manufacturing Engineering Role Specialist Skills	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the core pass criteria and ALL the pass criteria for one of the the specialist job role as laid out below.	Achieved Check the box	Distinction Criteria To achieve a distinction the apprentice must be able to achieve all of the pass criteria and at least 2 of the 3 core skills distinction criteria as laid out above and the distinction criteria for the specialist job role they are working towards	Achieved Check the box
<b>S13</b> Plan the mechanical manufacturing	Demonstrates their ability to produce components subassemblies or completed assemblies to the required specification. <b>Evidence including:</b>		Demonstrates that they can consistently produce high quality parts efficiently and can overcome problems.	
operation before they start S14 Mount and set the required work holding devices	Provides evidence of having used appropriate mechanical manufacturing techniques to produce individual components, sub-assemblies or completed assemblies, showing an			





	· · · · · · · · · · · · · · · · · · ·	T	<b>T</b>	r
<b>\$15</b> Produce individual components,	understanding of the techniques			
sub-assemblies or completed	used.			
assemblies using mechanical	Mounts and sets the required work			
manufacturing techniques	holding devices.			
<b>S16</b> Carry out quality checks during and				
after mechanical manufacturing	Can plan mechanical manufacturing			
operations	operation before they start.			
	Carries out appropriate quality			
	checks during and after mechanical			
	manufacturing operation to confirm			
	components sub-assemblies or			
	completed assemblies meet the			
	required specification.			
Questions				
Develop some open ended questions				
l imeline reference:	Portfolio refe	erence:		
Comments				





Option 3: Electrical and Electronic Engineering Role Specialist Skills	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the core pass criteria and ALL the pass criteria for one of the the specialist job role as laid out below.	Achieved Check the box	Distinction Criteria To achieve a distinction the apprentice must be able to achieve all of the pass criteria and at least 2 of the 3 core skills distinction criteria as laid out below and the distinction criteria for the specialist job role they are working towards.	Achieved Check the box
	Demonstrates their ability to assemble and test a range of electrical and electronic components.		Demonstrates that they can consistently assemble and test electrical and electronic equipment efficiently and can overcome problems.	
<b>S17</b> Wire and terminate different types of cabling e.g. single core, multi core, screened, fire resistant, armoured, etc.	Evidence including: Can wire and terminate different types of cabling.			
<b>S18</b> Assemble and test a range of electrical components e.g. component panels, isolator switches, fuses, circuit breakers, contactors, relays, rail mounted terminal blocks, etc.	Provides evidence of having used appropriate assembly and testing, showing an understanding of the techniques used.			





<b>S19</b> Assemble and test a range of electronic components e.g. resistors, capacitors, diodes, transistors, etc.	Carries out appropriate quality checks during and after the			
<b>S20</b> Follow appropriate completion activities and restore equipment/system to service after the assembly and testing has been completed	confirm required specification requirements are met.			
	Can follow completion activities and restores equipment to a serviceable condition.			
Questions		•		•
Develop some open ended questions				
Timelines reference:	Portfolio refe	erence:		
Comments				





Option 4: Fabrication Role Specialist Skills	Pass Criteria To achieve a PASS the apprentice must achieve ALL of the core pass criteria and ALL the pass criteria for one of the the specialist job role as laid out below.	Achieved Check the box	Distinction Criteria To achieve a distinction the apprentice must be able to achieve all of the pass criteria and at least 2 of the 3 core skills distinction criteria as laid out below and the distinction criteria for the specialist job role they are working towards.	Achieved Check the box
	Demonstrates their ability to assemble and test a range of electrical and electronic components.		Demonstrates that they can consistently assemble and test electrical and electronic equipment efficiently and can	
<ul> <li>S21 Shape the materials using the appropriate methods and techniques</li> <li>S22 Join the materials using the appropriate methods and techniques</li> </ul>	Provides evidence of having used appropriate work instructions to produce components as part of their work commitments and shows an understanding of any operating rules in place within the instruction		overcome problems.	
	Can shape the materials using the appropriate methods and techniques.			





<ul> <li>S23 Produce components which meet the specification requirements</li> <li>S24 Carry out quality checks during and after the fabrication activities</li> </ul>	Can join the materials using the appropriate methods and techniques. Carries out appropriate quality checks during and after the fabrication operation t confirm required specification requirement are met.	o D s	
Questions Develop some open ended questions			
Timelines reference:	Portfolio re	eference:	
Comments			





Core Behaviours	Pass Criteria Apprentice demonstrated an acceptable level of behaviour and meets the minimum level of behaviour expected. To achieve a pass the apprentice must achieve all of the behaviours pass criteria as laid out below.	Achieved Check the box	Distinction Criteria The apprentice must demonstrate consistent and positive behaviours. To achieve a distinction the apprentice must be able to achieve ALL of the pass criteria and ALL of the distinction criteria.	Achieved Check the box
	Demonstrate they comply with Health, Safety and guidance procedures.		Can challenge others on Health and Safety compliance.	
<b>B1</b> Personal responsibility and resilience Comply with the health and safety guidance and procedures, be disciplined and have a responsible approach to risk, work diligently regardless of how much they are being supervised, accept responsibility for managing time and workload and stay motivated and committed when facing challenges.	<b>Evidence including:</b> Always demonstrates understanding and importance of Health and Safety		Can proactively assesses/controls risk without the need to be prompted. Sets an example to others by always working hard even when on own.	
	requirements. Assesses/controls risk in current environment.			
	Can be trusted to work on own when appropriate, knowing who and where to seek help from if needed.		Can reflect on how to do things more effectively.	
	Can manage own time and workload			





	Stays motivated and committed, when facing small challenges.			
<b>Questions</b> Develop some open ended questions				
Timelines reference:	Portfolio ref	erence:		
Comments				





Core Behaviours	Pass Criteria Apprentice demonstrated an acceptable level of behaviour and meets the minimum level of behaviour expected. To achieve a pass the apprentice must achieve all of the behaviours pass criteria as laid out below.	Achieved Check the box	Distinction Criteria The apprentice must demonstrate consistent and positive behaviours. To achieve a distinction the apprentice must be able to achieve ALL of the pass criteria and ALL of the distinction criteria.	Achieved Check the box
	Demonstrate they can work well within a team		Proactively and regularly supports others.	
B2 Work effectively in teams Integrate with the team, support other people, consider implications of their own actions on other people and the business whilst working effectively to get the task completed.	Evidence including: Makes effort to integrate within a team. Will help and support when asked. Considers impact of own actions on other people or activities. Contributes positively to team deliverables.		Seeks support and advice and will share learning. Provides encouragement as appropriate to keep the team on track.	
Questions				





Timelines reference:	Portfolio reference:	
Comments		

Core Behaviours	Pass Criteria Apprentice demonstrated an acceptable level of behaviour and meets the minimum level of behaviour expected. To achieve a pass the apprentice must achieve all of the behaviours pass criteria as laid out below.	Achieved Check the box	Distinction Criteria The apprentice must demonstrate consistent and positive behaviours. To achieve a distinction the apprentice must be able to achieve ALL of the pass criteria and ALL of the distinction criteria.	Achieved Check the box
	Demonstrate they can communicate in an efficient and effective way.		Proactively shares information, openly honestly.	
<b>B3</b> Effective communication and interpersonal skills An open and honest communicator;	<b>Evidence including</b> : Can communicate open and honestly.		Checks understanding of others by asking open questions.	
communicates clearly using appropriate methods, listen well	Communicates clearly using appropriate methods.			





to others and have a positive and respectful attitude.	Pays attention and asks relevant questions to clarify understanding.		
	Has a positive and respectful attitude.		
Questions			
Develop some open ended question	S		
Timelines reference:	Portfolio re	eference:	
Comments			





Core Behaviours	Pass Criteria Apprentice demonstrated an acceptable level of behaviour and meets the minimum level of behaviour expected. To achieve a pass the apprentice must achieve all of the behaviours pass criteria as laid out below.	Achieved Check the box	Distinction Criteria The apprentice must demonstrate consistent and positive behaviours. To achieve a distinction the apprentice must be able to achieve ALL of the pass criteria and ALL of the distinction criteria.	Achieved Check the box
	Demonstrate they can follow instructions and guidance and can		Can make suggestions to improve instructions.	
<b>B4</b> Focus on quality and problem solving Follow instructions and guidance, demonstrate attention to detail, follow a logical approach to problem solving and seek opportunities to improve quality, speed and efficiency.	follow a logical approach to problem solving.		Can escalate issues as appropriate.	
	Evidence including: Understands and can follow		Applies the most appropriate technique for problem solving.	
	Demonstrates attention to detail.		Can reflect upon lessons learnt after problem solving activity.	
	Follows a logical/right approach to problem solving.			
	Identifies opportunities to improve but may need prompting for ideas.			
Questions				

Develop some open ended questions



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Timelines reference:	Portfolio reference:	
Comments		

Core Behaviours	Pass Criteria Apprentice demonstrated an acceptable level of behaviour and meets the minimum level of behaviour expected. To achieve a pass the apprentice must achieve all of the behaviours pass criteria as laid out below.	Achieve d Check the box *	Distinction Criteria The apprentice must demonstrate consistent and positive behaviours. To achieve a distinction the apprentice must be able to achieve ALL of the pass criteria and ALL of the distinction criteria.	Achieved Check the box
	Demonstrate they can take ownership of their personal development and will seek opportunities to develop.		Recognises needs and continually seeks learning opportunities.	
<b>B5 Continuous personal</b> <b>development</b> Reflect on skills, knowledge and	<b>Evidence including:</b> Can reflect on Knowledge and seeks opportunities to develop.		Can transfer learning, applying it to different situations. Can adapts quickly and	
behaviours and seek opportunities to develop, adapt to different situations, environments or	Can reflect on skills and seeks opportunities to develop.		effectively to new Situations, Environments or Technologies. Proactively seeks feedback and acts upon it.	





technologies and have a positive attitude to feedback	Can reflect on behaviours and seeks opportunities to develop.		
and advice.	Can adapt to different Situations, Environments or Technologies.		
	Has a positive attitude to feedback and advice.		
Questions		<u> </u>	
Develop some open ended ques	stions		
Timelines reference:	Portfolio refer	ence:	
Comments			





# Appendix F: Portfolio Mapping Document

Introduction

Use this document to map the portfolio of evidence to the KSBs assessed during the professional discussion.

#### Apprentice's 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. 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?'. 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 to locate the section or specific piece of evidence being discussed and referred to during the professional discussion.
- 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 least 2 weeks before the professional discussion. For apprentices using e-portfolios such as ONEFILE, SMARTASSESSOR, the reference used must simply be the file or folder name you used when uploading the evidence to such systems.



### Portfolio Mapping Document

#### Mapping Sign off on Portfolio Completion:

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

#### Core Knowledge for all pathways:

Ref. (KSB)	Apprenticeship Standard Criteria	PC E` RE (Appi 1	ORTFOL VIDENC FEREN rentice I 2	IO E CE nput) 3
К1	How to obtain the necessary job instructions, engineering drawings and specifications and how to interpret them			
К2	Relevant statutory, quality, environmental compliance procedures/systems, organisational and health and safety regulations relating to engineering operations			
К3	Their individual roles and responsibilities within the organisation and the flexibility required to support the achievement of company targets			
K4	Engineering operational practices, processes and procedures			
К5	Potential problems that can occur within the engineering operations and how they can be avoided			

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#### Option 1: Specific Job Role Knowledge: Maintenance role

Ref. (KSB)	ef. (SB) Apprenticeship Standard Criteria		PORTFOLIO EVIDENCE REFERENCE (Apprentice Input)		
		1	2	3	
K6	Maintenance planning				
K7	Diagnostic and fault finding techniques				
K8	Specific safe working practices, maintenance procedures and environmental regulations that need to be observed				

#### Option 2: Specific Job Role Knowledge: Mechanical Manufacturing Role:

Ref. (KSB)	Apprenticeship Standard Criteria	PORTFOLIO EVIDENCE REFERENCE (Apprentice Input)			
		1	2	3	
K9	Specific equipment operating parameters				
K10	Mechanical manufacturing techniques				
K11	Specific quality specifications for mechanical manufacturing operations				



Option	3: Specific	Job Role	Knowledge:	Electrical and	electronic	enainee	erina role:
		•					

Ref. (KSB) Apprenticeship Standard Criteria	Apprenticeship Standard Criteria	PC E` RE (App	ORTFOL VIDENC FEREN rentice I	-IO CE CE nput)
			2	3
K12	Cable types and where they should be used			
K13	Different fabrication and joining techniques			
K14	Specific safe working practices, isolation procedures and safe reinstating of equipment/system that need to be observed			

#### Option 4: Specific Job Role Knowledge: Fabrication role:

Ref. (KSB)	Apprenticeship Standard Criteria		PORTFOLIO EVIDENCE REFERENCE (Apprentice Input)		
			2	5	
K15	Specific marking out and preparation techniques				
K16	Different fabrication and joining techniques				



#### Core Skills for all pathways:

Ref. (KSB)	Apprenticeship Standard Criteria Work safely at all times, complying with health and safety legislation, regulations, environmental	PC E` RE (Appi 1	ORTFOL VIDENC FEREN rentice I 2	.IO CE nput) 3
S1	compliance procedures and systems and other relevant guidelines			
S2	Identify and deal appropriately with any risks, hazards, hazardous situations and problems that may occur within the engineering environment within the limits of their responsibility			
S3	Demonstrate effective communication skills which include oral, written, electronic			
S4	Complete appropriate documentation accurately, efficiently and legibly using the correct terminology where required			
S5	Obtain and follow the correct documentation, specifications and work instructions in accordance with time constraints and the roles and responsibilities identified for the engineering activities, extracting the necessary data/information from specification and related documentation			
S6	Select and use appropriate tools, equipment and materials to carry out the engineering operation			
S7	Deal appropriately with any problems that may occur within the manufacturing environment within the limits of their responsibility			
S8	Work efficiently and effectively at all times maintaining workplace organisation and minimising waste			



#### Option 1: Specific Job Role Skills: Maintenance role

Ref.		PORTFOLIO			
	Apprenticeship Standard Criteria		EVIDENCE		
			FEREN	CE	
(NOD)			rentice I	nput)	
		1	2	3	
S9	Carryout fault location on appropriate equipment using suitable maintenance diagnostic techniques				
S10	Carryout maintenance activities in line with work instructions				
S11	Carryout tests on the maintained equipment in accordance with test schedule/defined test				
011	procedures				
040	Follow appropriate completion activities and restore				
512	equipment to service by replacing or repairing				
	componenta				

#### Option 2: Specific Job Role Skills: Mechanical Manufacturing engineering role

Ref. (KSB)	Apprenticeship Standard Criteria	PORTFOLIO EVIDENCE REFERENCE (Apprentice Input)			
		1	2	3	
S13	Plan the mechanical manufacturing operation before they start				
S14	Mount and set the required work holding devices				
S15	Produce individual components, sub-assemblies or completed assemblies using mechanical manufacturing techniques				
S16	Carryout quality checks during and after mechanical manufacturing operations				

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Ref. (KSB)	Apprenticeship Standard Criteria		PORTFOLIO EVIDENCE REFERENCE (Apprentice Input)			
			1	2	3	
S17	Wire and terminate different types of cabling e.g., single core, multi core, screened, fire resistant and armoured					
S18	Assemble and test a range of electrical components e.g., component panels, isolator switches, fuses, circuit breakers, contactors, relays, rail mounted terminal blocks, etc					
S19	Assemble and test a range of electronic components e.g., resistors, capacitors, diodes, transistors, etc.					
S20	Follow appropriate completion activities and restore equipment/system to service after the assembly and testing has been completed					

#### Option 3: Specific Job Role Skills: Electrical and electronic engineering role

#### Option 4: Specific Job Role Skills: Fabrication role

Ref. (KSB)	Apprenticeship Standard Criteria	PORTFOLIO EVIDENCE REFERENCE (Apprentice Input)		
		1	2	3
S21	Shape the materials using the appropriate methods and techniques			
S22	Join the materials using the appropriate methods and techniques			
S23	Produce components which meet the specification requirements			
S24	Carry out quality checks during and after the fabrication activities			

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#### **Core Behaviours**

Ref. (KSB)	Apprenticeship Standard Criteria	PORTFOLIO EVIDENCE REFERENCE (Apprentice Input)		
B1	<b>Personal responsibility and resilience</b> – Comply with the health and safety guidance and procedures, be disciplined and have a responsible approach to risk, work diligently regardless of how much they are being supervised, accept responsibility for managing time and workload and stay motivated and committed when facing challenges.			
B2	<b>Work effectively in teams</b> – Integrate with the team, support other people, consider implications of their own actions on other people and the business whilst working effectively to get the task completed.			
В3	Effective communication and interpersonal skills – An open and honest communicator, communicates clearly using appropriate methods, listen well to others and have a positive and respectful attitude.			
В4	<b>Focus on quality and problem solving</b> – Follow instructions and guidance, demonstrate attention to detail, follow a logical approach to problem solving and seek opportunities to improve quality, speed and efficiency.			
B5	<b>Continuous personal development</b> – Reflect on skills, knowledge and behaviours and seek opportunities to develop, adapt to different situations, environments or technologies and have a positive attitude to feedback and advice.			

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