

ST0537/V2

Draft apprenticeship assessment plan for the Engineering operative apprenticeship

Apprenticeship reference number	Level of this apprenticeship	Integrated
ST0537	2	No

Assessment Plan

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Assessment details

Introduction

This Apprenticeship Assessment Plan (AAP) sets out the requirements for the assessment of the level 2 engineering operative apprenticeship. It should be read in conjunction with the General Requirements for Apprenticeship Assessment. Where there is conflict between this AAP and the General Requirements, this AAP takes precedence. Assessment organisations must also comply with the relevant regulatory framework for apprenticeship assessment.

It is important that the assessment of apprentices is proportionate, valid, and provides reliable evidence of an apprentice's attainment of the relevant knowledge and skills. As such, assessment organisations must design assessments to ensure:

- employers have confidence that the apprentice has reached the expected performance standard
- apprentices are sufficiently secure in their knowledge and skills, so that they could demonstrate their competence in different contexts, for example, a different workplace

Assessment Outcomes

The assessment outcomes group and summarise the knowledge and skills that must be demonstrated in assessments. All assessment outcomes must be assessed.

The assessment outcomes have been created to summarise the content that is not fully assessed by the qualification or qualifications mandated in the occupational standard. The qualification or qualifications assess the knowledge and skills statements that are not mapped here.

Assessment organisations must ensure all the core assessment outcomes and the assessment outcomes for one of the following options are assessed for each apprentice:

- Option 1: maintenance

- Option 2: manufacturing
- Option 3: electrical and electronic
- Option 4: fabrication
- Option 5: machining

Knowledge and skills statements in **bold** are mandatory and must be assessed in every version of the assessment that is made available.

Knowledge and skills statements which offer opportunities to develop functional English and maths are identified with an asterisk.

Core Assessment Outcome	Mapping
<p>AO1: Workplace responsibilities and operational compliance</p> <p>Demonstrates understanding and application of core workplace responsibilities, working within role boundaries, following organisational procedures, including communication and quality assurance, and upholds legal and regulatory requirements including environmental, sustainability and digital compliance requirements. Applies continuous improvement principles within their role and responsibilities.</p>	<p>K1, K3, K12, K14, K15*, K17</p> <p>S3, S12, S14, S17*</p>
<p>AO2: Tools, equipment, and consumables management</p> <p>Stores, handles and maintains tools, equipment and consumables complying with storage requirements, first-line maintenance principles and safe working practices. Carries out measuring and marking out tasks required for engineering and manufacturing operations.</p>	<p>K9, K10, K11</p> <p>S9, S10, S11*</p>
<p>Option 1: Maintenance</p>	<p>Mapping</p>

<p>AO3 Maintenance operations and safe working practices</p> <p>Conducts testing in line with schedules across mechanical, electrical and fluid power system. Completes maintenance activities, applying safe working practices, following maintenance plans and strategies.</p>	<p>K18, K19, K20, K21, K23*, K24*, K25*</p> <p>S18, S19, S20, S21*, S23*</p>
<p>AO4 Diagnostic techniques and corrective actions</p> <p>Uses diagnostic and fault-finding methods to identify issues in engineering systems and carry out corrective actions.</p>	<p>K22, K26*, K27</p> <p>S22*, S24</p>
<p>Option 2: Manufacturing</p>	<p>Mapping</p>
<p>AO5 Production operations and process control</p> <p>Completes production and process control, activities and applies safe working practices. Follows production plans and manufacturing processing systems, operating manual or semi-automated machines and adjusting operating parameters to meet specifications.</p>	<p>K28, K29, K30, K35, K38,</p> <p>S25, S26, S27*, S29*</p>
<p>AO6 Material selection, fault identification and quality control</p> <p>Selects materials, identifies faults in manufacturing production operations, and applies quality control production procedures.</p>	<p>K31, K32*, K33, K34, K36, K37</p> <p>S28, S30, S31*</p>
<p>Option 3: Electrical and electronic</p>	<p>Mapping</p>

<p>AO7 Electrical and electronic assembly and installation</p> <p>Completes electrical and electronic tasks using safe working practices, wiring and terminating cables, assembling components and applying electrical and electronic system principles.</p>	<p>K39, K40, K41, K42*, K43*, K44, K45</p> <p>S32, S33*, S34</p>
<p>AO8 Testing and fault finding</p> <p>Tests electrical and electronic assemblies, applies fault finding methods and identifies system faults using circuit analysis and testing techniques.</p>	<p>K46*, K47, K48</p> <p>S35, S36</p>
<p>Option 4: Fabrication</p>	<p>Mapping</p>
<p>AO9 Fabrication operations and materials preparation</p> <p>Completes fabrication tasks, applying safe working practices, marking out components and selecting materials for fabrication activities.</p>	<p>K49, K50*, K53</p> <p>S37, S38, S40</p>
<p>AO10 Fabrication, forming and quality assurance</p> <p>Uses fabrication, joining and forming methods, applying quality checks before, during and after fabrication operations.</p>	<p>K51, K52, K54</p> <p>S39*, S41*</p>
<p>Option 5: Machining</p>	<p>Mapping</p>
<p>AO11 Machining operations and set up</p> <p>Completes machining operations, uses safe working practices, setting up and operating manual or CNC machines, and selecting tools, materials and compounds.</p>	<p>K55, K56, K57, K58, K59*, K60</p> <p>S42, S43*, S44*, S45</p>

AO12 Tooling, parameters, diagnostics and inspection

Selects and applies tooling, adjusts machining parameters, identifies machining and machining faults and performs first off, in process and and final inspections.

K61, K62, K63, K64, **K65***

S46, S47, S48, S49, S50, S51*

Assessment requirements

Assessment organisations must set apprenticeship assessments. Assessment organisations should consider how technology and digital tools can support innovation and efficiency.

Assessment organisations must design apprenticeship assessments to include at least one **observation**.

Any additional assessment, or assessments, must be selected from the following list of methods, to ensure the assessment outcomes are met in full. Assessments available in the list may be used more than once:

- **professional discussion**
- **portfolio**
- **question and answer**
- **simulation**

Assessment organisations must have due regard to any relevant frameworks, standards, guidance or other documents that may be published by industry regulators, professional bodies, and other representative groups.

Apprentices may be assessed at any appropriate point during their apprenticeship programme.

Assessments may be designed to allow a centre or training provider to mark assessments. The assessment organisation is responsible for ensuring all assessments are sufficiently reliable and valid, and for the accuracy of any centre or training provider marking.

Performance descriptors

Performance descriptors describe the level of performance required to achieve a pass or distinction grade. Assessment organisations must design assessments that align with these descriptions.

Performance Category	Pass	Distinction
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Applied Knowledge	Applies knowledge, facts, procedures, and ideas appropriately to complete well-defined engineering-operative tasks and solve straightforward problems across routine and some varied work activities	Applies engineering-operative knowledge, facts, procedures, and ideas with consistently high accuracy, insight, and efficiency to solve straightforward problems and adapt effectively to well-defined tasks.
Applied Skills	Selects and uses cognitive and practical engineering-operative skills to carry out mostly routine tasks with consistency and purpose.	Integrates cognitive and practical engineering-operative skills to execute mostly routine tasks with precision, even when faced with subtle complexities or shifting requirements.
Regulatory and Procedural Awareness	Applies relevant engineering workplace legislation, regulations, and organisational procedures without error, although depth of insight or adaptability may be limited.	Demonstrates proactive and confident interpretation of relevant engineering workplace legislation, regulations, and organisational procedures.
Communication and Collaboration	Communicates and collaborates effectively within a team or group setting, showing reliable service delivery and teamwork skills when required.	Communicates consistently with clarity and sensitivity, showing strong awareness of others and responding resourcefully in a range of team and service delivery scenarios.
Information Use and Decision Making	Gathers and interprets relevant information to	Gathers and interprets relevant information and

	inform decisions and actions that are fit for purpose within engineering-operative work contexts.	feedback to shape actions that are purposeful and show clear added value in terms of efficiency or outcomes.
Responsibility and Autonomy	Takes responsibility for completing engineering-operative tasks, demonstrating autonomy within familiar situations.	Exercises informed judgement and self-direction, often anticipating the needs of the engineering-operative task or team.

Additional qualification

The qualification detailed in the occupational standard must be completed before the end of the apprenticeship.

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