



Draft Preview

DRAFT APPRENTICESHIP ASSESSMENT PLAN FOR THE CONSTRUCTION EQUIPMENT MAINTENANCE TECHNICIAN APPRENTICESHIP

ST0671/V2

APPRENTICESHIP REFERENCE NUMBER	LEVEL OF THIS APPRENTICESHIP	INTEGRATION
ST0671	3	None

Assessment Plan

Assessment details

Introduction

This Apprenticeship Assessment Plan (AAP) sets out the requirements for the assessment of the level 3 construction equipment maintenance technician 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.

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.

Assessment Outcome	Mapping
<p>AO1: Communication, Teamwork and Personal Development</p> <p>Description: Communicates and negotiates with colleagues and stakeholders; provides information, advice and guidance; and uses organisational documentation systems (paper and digital) to plan and record work-based activities. Maintains professional competence and operates ethically as an individual and as part of a team.</p>	<p>K1*, K2, K23, K24, K25, K26, K27*, K29</p> <p>S1*, S2*, S3*, S4, S5, S27, S28</p>
<p>AO2: Regulatory Compliance, Health, Safety, Environment and Quality</p> <p>Applies legal, regulatory and organisational requirements, conducting risk assessments and applying safe systems of work; mitigates environmental impacts and follows waste management guidance. Applies quality assurance procedures, including legal, regulatory and organisational checks, inspections and examinations.</p>	<p>K8, K9, K30, K31</p> <p>S9, S10, S11, S26, S29</p>
<p>AO3: Engineering and Mathematical Principles in Construction Equipment Maintenance.</p> <p>Reads and interprets technical information and understands the behaviour of engineering equipment, systems and materials. Uses mechanical, electrical/electronic and mechatronic principles — including calculations, conversions and materials knowledge — to support diagnostics, testing and identification of actions.</p>	<p>K3*, K4*, K5*, K6*, K7, K28</p> <p>S13, S20</p>
<p>AO4: Maintenance, Diagnostic and Repair Operations</p> <p>Investigates faults using diagnostic methods; performs repairs; and tests and documents outcomes and identified solutions. Selects techniques, tools and calibrated equipment and carries out planned, preventative, predictive or reactive maintenance, considering impacts to cost, time, quality, safety, security and the surrounding environment.</p>	<p>K13, K14, K15, K16, K17</p> <p>S12, S14, S15, S16, S17, S18, S22</p>
<p>AO5: Component, Systems Installation, Commissioning, Decommissioning and Removal</p>	<p>K11, K12, K18</p>

Assembles, installs and alters components or systems (including fabrication where required); performs commissioning checks following maintenance or repair; and undertakes decommissioning, disassembly and removal, restoring the work area	S19, S21, S23, S24
AO6: Digital, Technologies, Data and Performance Monitoring	K10 S7, S8
Uses digital devices, connected technologies and information systems to record, analyse and secure data, GDPR and cyber compliant; applies digital performance aids, including VR or AR where applicable; and leverages data logging to optimise equipment performance.	
AO7: Business Operations, Work Planning and Continuous Improvement	K19, K20, K21, K22 S6, S25
Understands the function of the construction equipment maintenance sector and industry and their role in this. Applies planning and continuous improvement techniques within the context of their role.	

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 **simulation**.

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:

- **question and answers**
- **portfolio**
- **interview**

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
Applied Knowledge	Demonstrates sound application of construction-equipment maintenance knowledge, facts, procedures and ideas across routine and non-routine tasks, completing them to an acceptable standard within familiar but sometimes complex work contexts.	Applies a thorough understanding of construction-equipment maintenance knowledge, facts, procedures and ideas to manage and resolve routine and non-routine tasks with discernment and skill in familiar but sometimes complex work contexts.
Applied Skills	Identifies and applies appropriate construction-equipment maintenance skills, methods and procedures to complete tasks and address challenges with a reasonable degree of autonomy and effectiveness across routine and non-routine activities.	Selects and integrates appropriate construction-equipment maintenance skills, methods and procedures proactively and resourcefully to complete tasks and address challenges effectively and with minimal oversight across routine and non-routine activities.
Regulatory and Procedural Awareness	Applies legal, regulatory and organisational requirements relevant to construction-equipment maintenance without error, with some depth of insight and adaptability when completing routine	Demonstrates refined judgement in interpreting legal, regulatory and organisational requirements relevant to construction-equipment maintenance, confidently navigating nuanced issues in practice across routine and non-routine tasks.

	and non-routine tasks.	
Communication and Collaboration	Participates effectively in team environments and demonstrates effective communication to support service delivery in construction-equipment maintenance activities, operating with a reasonable degree of autonomy in familiar but sometimes complex work contexts.	Communicates persuasively and adapts confidently to different audiences and team dynamics, taking initiative in supporting service delivery within construction-equipment maintenance activities in familiar but sometimes complex work contexts.
Information Use and Decision Making	Accurately interprets and evaluates relevant information from a variety of sources to support problem-solving in mostly familiar but sometimes complex work contexts.	Evaluates diverse and sometimes conflicting information sources with insight, drawing informed conclusions that improve task outcomes or efficiency.
Responsibility and Autonomy	Takes responsibility for initiating and completing tasks within set parameters and, where relevant, contributes to guiding or supporting others.	Pre-empts the need for tasks to be initiated, within set parameters demonstrating accountability, and responsiveness to emerging priorities or risks, and leading others to achieve team outcomes.

Professional recognition

This apprenticeship aligns with the requirements for professional body recognition as detailed in the occupational standard.

Please contact the relevant professional body for further information.

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