



Draft Preview

DRAFT APPRENTICESHIP ASSESSMENT PLAN FOR THE ENGINEERING MAINTENANCE TECHNICIAN - DUAL DISCIPLINE APPRENTICESHIP

ST1443/V2

APPRENTICESHIP REFERENCE NUMBER	LEVEL OF THIS APPRENTICESHIP	INTEGRATION
ST1443	3	None

Assessment Plan

Assessment details

Introduction

This Apprenticeship Assessment Plan (AAP) sets out the requirements for the assessment of the level 3 engineering maintenance technician - dual discipline 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.

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: Electrical and control and instrumentation engineering maintenance technician
- Option 2: Electrical and mechanical engineering maintenance technician

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
AO1: Maintenance Planning and Work Preparation Plans and maintenance activities by interpreting technical information, organising resources, preparing work areas, and ensuring tasks are aligned with organisational procedures and priorities.	K1, K2, K3, K4, K5*, K6, K7, K17*, K19*, K21*, K23 S1*, S2*, S3, S5, S6, S13*, S23
AO2: Health, Safety, Environmental and Security Compliance Applies health, safety, environmental, and security controls through identifying hazards, risk assessment, applying control measures, and responding to workplace incidents and emergencies.	K8, K9*, K10, K11, K12, K13, K14, K15, K16, K24 S7, S8, S9, S10, S11, S12, S15
AO3: Maintenance Delivery and Equipment Care Carries out maintenance tasks by inspecting, testing, adjusting, cleaning, replacing components, reinstating work areas, and completing required documentation following engineering standards and management requirements.	K18, K20, K22, K25* S14, S16, S17, S21*
AO4: Problem-Solving, Fault response and Continuous Improvement Applies structured problem-solving and continuous improvement methods, analyses information to address emerging issues, identifies opportunities to enhance maintenance activities, and escalates matters outside their responsibility.	K26* S4, S20, S25*
AO5: Communication, Digital Systems, and Teamwork Communicates with colleagues and stakeholders, uses digital systems to record and share information while maintaining GDPR requirements, contributes to team activities, and supports inclusive working practices and records learning and development.	K27, K28, K29*, K30*,K31, K32 S18, S19*, S22, S24*, S26
Option 1: Electrical and control and instrumentation engineering maintenance technician	Mapping
AO6: Electrical Maintenance Operations	K33, K35, K36*, K37*, K38*, K39, K40, K41, K42*, K43

Carries out electrical maintenance activities by inspecting, testing, installing, adjusting, replacing components, terminating cables, and reinstating electrical systems.	S28*, S31, S32, S33, S34*, S35
AO7: Control and Instrumentation Maintenance Operations Carries out control and instrumentation maintenance activities by inspecting, testing, setting up, adjusting, and replacing components, and conducting functional testing to confirm safe and correct operation of systems.	K47*, K48, K49* , K50, K51*, K52 , K53*, K45*, K55 S38, S39*, S40, S41*, S42*, S43
AO8: Electrical Control and Instrumentation Fault-Finding and Diagnostics Diagnoses faults in electrical and control and instrumentation systems using testing methods, diagnostic tools, and analytical techniques to identify and restore equipment performance.	K44, K45, K55, K56 S29*, S30, S37
AO9: Electrical Control and Instrumentation Isolation, Safety and Reinstatement Applies safe electrical and control and instrumentation isolation procedures, including lockout tagout, testing or proving dead, and connected-service isolation, and reinstates electrical, pneumatic, hydraulic, and other associated services following maintenance or fault-finding activities in accordance with organisational procedures and regulatory requirements.	K34, K46 S27, S36
Option 2: Electrical and mechanical engineering maintenance technician	Mapping
AO10: Electrical Maintenance Operations Carries out electrical and mechanical maintenance activities by inspecting, testing, setting up, adjusting, and replacing components, and conducting functional testing to confirm safe and correct operation of systems.	K57, K59, K60*, K61, K62*, K63, K64, K65, K66*, K67 S46*, S49, S50, S51, S52*, S53, S54

AO11: Mechanical Maintenance Operations Maintains mechanical equipment by inspecting, replacing, aligning, lubricating, and adjusting components, and applying pneumatic, hydraulic, and fitting techniques.	K71*, K72, K73, K74 , K75*, K76, K77*, K78* , K79, K80* S55, S56, S57, S58*, S59, S60*
AO12: Electro-Mechanical Fault-Finding and Diagnostics Diagnoses faults in electro-mechanical systems using diagnostic tools, testing methods, and analytical techniques to identify issues and restore equipment performance.	K67, K68, K69 S47*, S48*
AO13: Electro-Mechanical Isolation, Safety and Reinstatement Applies safe electro-mechanical isolation of electrical, mechanical, hydraulic, and pneumatic services using lockout tagout method, proving-dead, and connected-service isolation procedures, and reinstates systems following maintenance or diagnostic activities in line with organisational procedures, regulatory requirements, and safety standards.	K58, K70 S44, S45

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** or **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:

- **interview**
- **portfolio**
- **additional observation**
- **additional simulation**
- **question and answer**
- **demonstration**

- **written assessment**

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 engineering 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 engineering maintenance knowledge, facts, procedures, and ideas to manage and resolve routine and non-routine tasks with discernment and skill, confidently addressing familiar but sometimes complex work contexts.
Applied Skills	Identifies and applies appropriate engineering maintenance skills, methods, and procedures to complete tasks and address challenges with a reasonable degree of autonomy and effectiveness across routine and non-routine tasks.	Selects and integrates appropriate engineering maintenance skills, methods, and procedures proactively and resourcefully to complete tasks and address challenges effectively and with minimal oversight across routine and non-routine tasks.
Regulatory and Procedural Awareness	Applies relevant engineering maintenance legislation, regulation, and organisational procedures without error, demonstrating some depth of insight and adaptability within set parameters.	Demonstrates refined judgement in interpreting engineering maintenance legislation, regulation, and organisational procedures, confidently navigating nuanced issues in practice within set parameters.
Communication and Collaboration	Participates effectively in engineering maintenance team environments and	Communicates persuasively and adapts confidently to different audiences and team dynamics in

	demonstrates effective communication and service-delivery skills that support daily operations in familiar but sometimes complex contexts.	engineering maintenance environments, taking initiative in delivering colleague and stakeholder interactions.
Information Use and Decision Making	Accurately interprets and evaluates relevant engineering maintenance information from a variety of sources to support problem-solving in mostly familiar but sometimes complex work contexts.	Accurately interprets and evaluates relevant engineering maintenance information from a variety of sources to support problem-solving in mostly familiar but sometimes complex work contexts.
Responsibility and Autonomy	Takes responsibility for initiating and completing engineering maintenance tasks within set parameters and, where relevant, contributes to guiding or supporting others in routine and non-routine contexts.	Pre-empt the need for engineering maintenance 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.

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