



Draft Preview

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

ST1426/V2

APPRENTICESHIP REFERENCE NUMBER	LEVEL OF THIS APPRENTICESHIP	INTEGRATION
ST1426	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 - single 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 engineering maintenance technician
- Option 2: Control and instrumentation engineering maintenance technician
- Option 3: 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 prepares 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*, S22, 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 quality 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 personal learning and development.	K27, K28, K29*, K30*, K31, K32 S18, S19*, S22*, S24*, S26
Option 1: Electrical engineering maintenance technician	Mapping

AO6: Electrical Maintenance, Setup and Functional Testing	K33* , K35, K36* , K37, K38* , K39, K40, K41, K42*
Carries out electrical maintenance activities by inspecting, testing, setting up, adjusting, and replacing components, and conducting functional testing to confirm safe and correct operation of systems.	S28, S31, S32, S33, S34*, S35, S37
AO7: Electrical Isolation, Safety and Reinstatement	K34
Applies safe electrical isolation and connected-service isolation procedures, including lockout tagout systems and proving dead, and reinstates electrical systems and services in accordance with organisational procedures and regulatory requirements.	S27, S36
AO8: Electrical Diagnostics, Fault Identification and Rectification	K43, K44, K45 S29*, S30
Uses electrical diagnostic tools and techniques to identify system faults, apply problem-solving and critical-reasoning methods, and carry out appropriate electrical rectification activities to restore plant and equipment to operational condition.	
Option 2: Control and instrumentation engineering maintenance technician	Mapping
AO9: Control and Instrumentation Maintenance, Calibration, Setup and Functional Testing	K46 , K49*, K50, K51 , K52, K53*, K54 , K55, K56
Carries out maintenance on control and instrumentation systems by inspecting, testing, cleaning, setting up, adjusting, calibrating devices, checking loop functionality, reconnecting services, and completing functional testing to ensure instruments and control systems operate within required parameters.	S40, S43, S44*, S45, S46*, S47, S48*, S49, S51*

AO10: Control and Instrumentation Isolation, Safety and Reinstatement Applies safe isolation of electrical and connected services, including lockout tagout systems and testing for dead, and reinstates electrical, pneumatic, hydraulic, and other connected services following maintenance or fault-finding activities in accordance with organisational and regulatory requirements.	K47, K48 S38, S39, S50
AO11: Control and Instrumentation Diagnostics, Fault Identification and Rectification Uses control and instrumentation diagnostic tools and techniques to investigate equipment and system faults, interpret diagnostic data, apply structured problem-solving and critical-reasoning approaches, and complete rectification activities to return systems to safe and effective operation.	K57, K58, K59, K60 S41, S42*
Option 3: Mechanical engineering maintenance technician	Mapping
AO12: Mechanical Maintenance, Setup, Adjustment and Functional Testing Carries out mechanical maintenance activities by inspecting, testing, setting up, adjusting, and replacing components, and conducting functional testing to confirm safe and correct operation of systems.	K61, K62, K63*, K64, K65, K66, K68 S53, S56, S57, S58, S59*, S60 S61, S63*
AO13: Mechanical Isolation, Safety and Reinstatement Applies safe isolation of connected services, including mechanical, hydraulic, and pneumatic systems, and reinstates services following maintenance or diagnostic activities in line with organisational procedures and safety requirements.	K67 S52, S62
AO14: Mechanical Diagnostics, Fault Identification and Rectification Uses mechanical diagnostic tools and techniques to identify faults, examine components for defects, apply structured problem-solving and bench-fitting methods, and undertake mechanical rectification activities to restore equipment performance.	K69*, K70, K71*, K72, K73* S54, S55*, S64*

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 activities.	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 activities.
Regulatory and Procedural Awareness	Applies legislation, regulation, and organisational maintenance procedures relevant to the role without error, showing some depth of insight and adaptability when working within routine and non-routine tasks.	Demonstrates refined judgement in interpreting legislation, regulation, and organisational maintenance procedures, confidently navigating nuanced issues in practice across routine and non-routine tasks.
Communication and Collaboration	Participates effectively in engineering team environments,	Communicates persuasively and adapts confidently to different audiences and

	demonstrating clear communication and collaboration with colleagues and stakeholders to support service delivery in familiar but sometimes complex work contexts.	team dynamics, taking initiative in effective colleague and stakeholder interactions to enhance service delivery in familiar but sometimes complex contexts.
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, applying sound judgement within set parameters.	Evaluates diverse and sometimes conflicting engineering maintenance information sources with insight, drawing informed conclusions that improve task outcomes or efficiency in 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 while maintaining a reasonable degree of autonomy.	Pre-empts 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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