



Australian Government

RIISAM207D Apply operational maintenance skills

Release: 3

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Modification History

Release	Comment
1	This unit replaces RIISAM207A Apply operational maintenance skills.
2	Performance Criteria distribution and wording amended.
3	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to apply operational maintenance skills in the Resources and Infrastructure Industries.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Relevant information must be sourced prior to application of the unit.

Elements and Performance Criteria

1. Plan and prepare for applying operational maintenance skills	1.1	Access, interpret and apply operational maintenance skills documentation and ensure the work activity is compliant
	1.2	Obtain, read, interpret, clarify and confirm work requirements
	1.3	Identify and address potential risks, hazards and environmental issues, and implement control measures
	1.4	Select and wear personal protective equipment appropriate for work activities
	1.5	Identify and obtain appropriate tools required for the work activity
	1.6	Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
	1.7	Inspect and prepare tools for use and report faults
2. Identify and respond	2.1	Apply site safety information and procedures, including

to basic faults in mechanical systems	isolation procedures, when working with mechanical systems 2.2 Identify general components of mechanical systems, and their functions 2.3 Apply techniques to identify and respond to faults in mechanical systems 2.4 Rectify and report faults in mechanical systems 2.5 Use tools correctly and safely for their intended purpose in a mechanical context
3. Identify and respond to basic faults in electrical systems	3.1 Apply site safety principles and procedures, including isolation procedures, when working with electrical systems 3.2 Identify components and functions of basic electrical circuitry 3.3 Apply techniques to identify and respond to faults in electrical systems 3.4 Rectify and report faults in electrical systems 3.5 Use tools correctly and safely for their intended purpose in an electrical context
4. Identify, select and use fasteners	4.1 Apply site safety systems and procedures, including isolation procedures, when working with fasteners 4.2 Identify fasteners and match with the work requirements 4.3 Correctly use/apply fasteners
5. Conduct housekeeping activities	5.1 Identify and complete tool maintenance requirements 5.2 Clean tools after use and return/store 5.3 Clear work area and dispose of discarded materials

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIISAM207A Apply operational maintenance skills

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIISAM207D Apply operational maintenance skills

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of applying operational maintenance skills including:
 - operational safety
 - manufacturer's and site technical information
 - matching tools with work needs
 - site isolation procedures
 - diagnosing and responding to faults
 - reporting
 - environmental requirements
- demonstrates completion of applying operational maintenance skills that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identifying, rectifying and/or reporting faults in:
 - mechanical systems
 - electrical systems
 - identifying and using fasteners
 - completing housekeeping

- inspect and prepare tools for use
- identify components of mechanical systems and electrical circuitry

Knowledge Evidence

The candidate must demonstrate knowledge of the following when applying operational maintenance:

- identifying types, characteristics, uses and limitations of hand tools
- identifying types, characteristics, uses and limitations of measuring devices
- complying with hand tool maintenance, care and storage procedures
- identifying types, characteristics, uses and limitations of power tools
- complying with power tool maintenance, care and storage procedures
- identify the functions of major components of common:
 - mechanical systems
 - electrical systems
 - hydraulic systems
 - pneumatic systems
 - lubrication systems
- applying basic diagnostic processes/techniques
- identifying types, uses, grades and limitations of fasteners
- identifying and applying environmental constraints and requirements related to operational maintenance
- identifying types and uses of oils, greases, hydraulic fluids, brake fluid and other commonly used servicing materials

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit is best assessed in the context of this sector's work environment;
- where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,

- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 Years
Other sectors	Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation.	

*Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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