



Australian Government

RIISAM301E Test operational functions of vehicles and equipment

Release: 1

RIISAM301E Test operational functions of vehicles and equipment

Modification History

Release	Comment
1	This unit replaces RIISAM301D Test operational functions of vehicles and equipment. Extractive added to the unit sector. Added mapping table.

Application

This unit describes a participant's skills and knowledge required to test operational functions of vehicles and equipment in the coal mining, extractive and metalliferous mining sectors.

This unit is appropriate for those working in operational roles.

No licensing, legislation or certification requirements apply to this unit at the time of publication.

Unit Sector

Coal mining

Extractive

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare for testing vehicles and equipment	1.1 Access, interpret and apply service and maintenance 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 appropriate personal protective equipment for the work activity 1.5 Access, interpret and apply required geological and survey data 1.6 Identify and confirm testing requirements 1.7 Identify and obtain required resources 1.8 Prepare vehicle to be worked on for the test
--	---

	1.9 Coordinate activities with others prior to commencement of, and during, the work activity 1.10 Obtain and interpret emergency procedures and be prepared for fire/accident/emergency
2. Test vehicles and equipment	2.1 Carry out pre-start, start-up, shut-down and isolation procedures 2.2 Test operational functions of the vehicle 2.3 Move/relocate vehicle for testing purposes 2.4 Identify and rectify faults and arrange for corrective action 2.5 Act on and report monitoring systems warnings and alarms 2.6 Recognise and respond to hazardous and emergency situations
3. Complete the testing sequence	3.1 Clean, maintain and store equipment and tools 3.2 Restore worksite 3.3 Complete records and documents

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

Code and title current version	Code and title previous version	Comments	Equivalence status
RIISAM301E Test operational functions of vehicles and equipment	RIISAM301D Test operational functions of vehicles and equipment	Extractive added to the unit sector. Added mapping table.	Equivalent

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 RIISAM301E Test operational functions of vehicles and equipment

Modification History

Release	Comment
1	This unit replaces RIISAM301D Test operational functions of vehicles and equipment. Extractive added to the unit sector. Added mapping table.

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 legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient testing of the operational functions of vehicles and equipment including:
 - applying site safety procedures
 - using hand and power tools
 - carrying out precision measurements
 - accessing and using the site inventory system
 - operating vehicles/equipment for test purposes
 - interpreting test results
- works effectively with others to test the operational functions of vehicles and equipment that meets all of the required outcomes including:
 - complying with written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to coordinate work activities
- demonstrates completion of testing the operational functions of vehicles and equipment that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - carrying out pre-start, start-up, shut-down and isolation procedures
 - identifying and diagnosing faults
 - testing the operational functions of a vehicle
 - moving and relocating a vehicle
 - cleaning, maintaining and storing equipment and tools

Knowledge Evidence

The candidate must demonstrate knowledge of the following when testing operational functions of vehicles and equipment:

- legislative, organisation and site requirements and procedures for:
 - workplace health and safety
 - mine operations
 - diagnosis and fault finding
 - site equipment and maintenance
 - documentation and record keeping
 - testing
 - identifying operations, characteristics, capabilities and limitations of mine vehicles and equipment
 - accessing and using site inventory (parts) systems

Assessment Conditions

- Assessors must satisfy the Standards for Registered Training Organisations (RTOs) 2015/AQTF mandatory competency requirements for assessors; 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.

Links

Companion Volume implementation guides are found in VETNet -

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