



Australian Government

RIISAM312D Inspect and maintain shafts and structures

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIISAM312A Inspect and maintain shafts and structures
2	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 inspect and maintain shafts and structures in Underground Coal and Metalliferous mining.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements vary between States, Territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Coal mining (Underground)

Metalliferous mining (Underground)

Elements and Performance Criteria

1. Plan and prepare to inspect and maintain shafts and structures	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, address and report potential hazards, risks and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for the work activity 1.5 Obtain and interpret emergency procedures and be prepared for fire/accident/emergency 1.6 Set up and schedule work
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2. Conduct shaft maintenance	2.1 Conduct work safely and efficiently 2.2 Perform all isolations and tagging out 2.3 Establish communication system and perform checks 2.4 Communicate with winder driver and others involved and ensure clear and safe maintenance operations 2.5 Ensure winder is placed in inspection/maintenance mode, including “inching” 2.6 Perform inspection and maintenance work from top of conveyance 2.7 Carry out maintenance 2.8 Complete inspection/maintenance and record any follow-up actions 2.9 Ensure all safety devices are in back in place and tags removed before shaft is returned to service 2.10 Remove overhead protection and guard rails 2.11 Ensure housekeeping standard is met and area is clear of foreign materials, communication equipment and tools
3. Conduct post-maintenance activities	3.1 Complete all required documentation 3.2 Ensure shaft operations and structures are tested and monitored 3.3 Advise appropriate personnel when maintenance activities are concluded

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

RIISAM312A Inspect and maintain shafts and structures

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 RIISAM312D Inspect and maintain shafts and structures

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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 inspection and maintenance of shafts and structures including:
 - applying standard operating practices and procedures around shafts
 - applying safe work practices
 - monitoring critical components
 - applying communication and reporting requirements and procedures
 - using hand and power tools
- works effectively with others to inspect and maintain shafts and structures that meet 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 the inspection and maintenance of shafts and structures that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - performing isolations and tagging out
 - inspecting and maintaining from top of conveyance
 - removing overhead protection and guard rails

- carry out maintenance of shafts and structures
- safely return shaft to service
- complete required documentation

Knowledge Evidence

The candidate must demonstrate knowledge in inspecting and maintaining shafts and structures through:

- accessing, interpreting and applying legislative, organisation and site requirements and procedures for:
 - operating equipment controls, monitoring gauges and systems
 - conducting safety checks
 - operating equipment within specified limitations and capabilities
 - workplace health and safety
 - communication and reporting
 - operating and maintaining shafts and structures

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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