



Australian Government

RIIUMM202D Install and maintain vent

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIUMM202A Install and maintain vent
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 install and maintain vent in Metalliferous mining.

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.

Unit Sector

Metalliferous mining (Underground)

Elements and Performance Criteria

1. Plan and prepare for the installation of ventilation systems	1.1. Access, interpret and apply installation of ventilation systems documentation, and ensure the work activity is compliant 1.2. Obtain, interpret, clarify and confirm work instructions 1.3. Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency 1.4. Select, and check for faults, equipment/tools for the activity 1.5. Inspect and assess site conditions and determine if scaling is required 1.6. Conduct equipment pre-start checks and start up procedures 1.7. Identify, address and report environmental issues, potential risks and hazards
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	1.8. Communicate with other equipment operators and personnel using approved communication methods 1.9. Use approved dust suppression and extraction equipment/methods 1.10. Ensure work area is ventilated before entry
2. Install and maintain vent	2.1. Isolate and lock out ventilation devices 2.2. Install and test catenary cable or secure to existing ground support mechanisms where appropriate 2.3. Hang and secure ventilation bag 2.4. Check vent for correct operation and replace and/or adjust vent if required
3. Remove vent	3.1. Isolate and lock out ventilation devices 3.2. Loosen and disconnect vent support mechanisms 3.3. Remove vent whilst ensuring the safety of personnel and associated equipment and services 3.4. Seal any reticulation system openings correctly to minimise entry of foreign material
4. Conduct housekeeping activities	4.1. Clear work area and dispose of or recycle materials 4.2. Clean and maintain condition of equipment, ensure suitability for use, and address/report issues 4.3. Manage and/or report hazards, and maintain a safe working environment 4.4. Process and maintain written records

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

RIIUMM202A Install and maintain vent

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 RIIUMM202D Install and maintain vent

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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 set installation including:
 - using appropriate dust suppression and extraction methods
- works effectively with others to undertake and complete the installation and maintenance of vents that meets all of the required outcomes including:
 - communicating clearly and concisely with others to receive and clarify work instructions, and convey work progress
 - maintaining written and verbal reporting requirements and procedures
- demonstrates completion of set installation that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - conducting equipment pre-start checks and start up procedures
 - isolating and locking out ventilation devices
 - installing and testing catenary cable or securing to existing ground support mechanisms
 - hanging and securing ventilation bag
 - removing vent whilst ensuring safety of personnel and equipment
 - conducting housekeeping activities

Knowledge Evidence

The candidate must demonstrate knowledge in installing and maintaining vent through:

- risk assessment and hazard management
- environmental issues
- working underground
- equipment parking
- site conditions including:
 - basic geological and technical data
 - environmental issues
 - ground control characteristics and applications
 - dust suppression and extraction equipment
- ventilation equipment processes, technical capability and limitations
- site ventilation quality and quantity requirements
- being prepared for events for fire/accident/emergency

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 must be assessed in the context of this sector's work environment; 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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