



Australian Government

RIIMCU212E Construct and maintain basic ventilation devices

Release: 1

RIIMCU212E Construct and maintain basic ventilation devices

Modification History

Release	Comment
1	This unit replaces RIIMCU212D Construct and maintain basic ventilation devices. Performance criteria 1.1 amended grammatically. Performance evidence added to include basic construction skills to identify potential strata hazard, and types of stoppings and regulators. Knowledge evidence added to include identifying hazard management processes and techniques. Mapping table added.

Application

This unit describes a participant's skills and knowledge required to construct and maintain basic ventilation devices in Coal 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 the application of this unit.

Unit Sector

Coal mining

Elements and Performance Criteria

1. Plan and prepare to construct and maintain basic ventilation devices	1.1 Access, interpret and apply all task related 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 and protective clothing 1.5 Access, interpret and apply mine environmental data required to complete the allocated work 1.6 Obtain, transport and prepare materials and resources required for the work 1.7 Obtain and interpret emergency procedures and be prepared for fire/accident/emergency
---	--

2. Construct basic ventilation devices	2.1 Communicate and coordinate activities with others throughout the work activity 2.2 Prepare worksite 2.3 Construct ventilation device 2.4 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment 2.5 Complete the work plan
3. Maintain basic ventilation devices	3.1 Carry out inspections 3.2 Obtain, transport and prepare necessary replacement materials/equipment required for the work 3.3 Carry out maintenance work 3.4 Carry out housekeeping activities 3.5 Maintain records/reports

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
RIIMCU212E Construct and maintain basic ventilation devices	RIIMCU212D Construct and maintain basic ventilation devices	Performance criteria 1.1 amended. Performance evidence added. Knowledge evidence added.	Not 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 RIIMCU212E Construct and maintain basic ventilation devices

Modification History

Release	Comment
1	This unit replaces RIIMCU212D Construct and maintain basic ventilation devices. Performance criteria 1.1 amended grammatically. Performance evidence added to include basic construction skills to identify potential strata hazard, and types of stoppings and regulators. Knowledge evidence added to include identifying hazard management processes and techniques. Mapping table added.

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 constructing and maintaining basic ventilation devices including:
 - reading, interpreting, communicating and applying technical information
 - identifying, addressing and reporting environmental issues, operational issues, potential hazards and risks
 - applying equipment/manual handling techniques
 - selecting and using relevant tools and equipment
 - complying with environmental, operational and statutory requirements
 - identifying work requirements
 - applying construction techniques
 - inspecting and maintaining devices, equipment and materials
- works effectively with others to undertake and complete constructing and maintaining basic ventilation devices in a way that meets all of the required outcomes including:
 - organising work activities to meet all task requirements
 - communicating clearly and concisely with others to receive and clarify work instructions
 - complying with written and verbal reporting requirements and procedures
 - resolving coordination requirements throughout work activities
- demonstrates completion of constructing and maintaining basic ventilation devices that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:

- applying construction techniques for constructing and maintaining basic ventilation devices
- applying basic construction skills to conduct remedial work to make workplace safe
- identifying potential strata hazards (roof and ribs)
- constructing and maintaining the following devices in an underground coal mine:
 - temporary/short-term stopping; and
 - permanent/long-term stopping of regulator or coffin box; and
 - machine doors
- using materials for devices under this unit, which may include but not limited to:
 - brattice
 - plasterboard
 - hessian
 - canvas
 - plaster
 - snap jacks
 - pogo sticks
 - props
 - battens
 - nails

Knowledge Evidence

The candidate must demonstrate knowledge of the following when constructing and maintaining basic ventilation devices:

- mine operational procedures, layout and plan
- types and applications of stoppings and regulators (including temporary/short-term, permanent/long-term, rated/non-rated)
- stopping maintenance procedures
- mine environmental requirements and constraints related to stopping construction
- operational safety systems related to ventilation devices
- basic statutory and site ventilation requirements
- basic mine geology and survey information related to ventilation devices
- ventilation systems
- ventilation device construction processes and techniques
- ventilation device equipment and material characteristics including transportation requirements
- identifying hazard management processes and techniques for managing hazards (including strata, dust, gases, poor ventilation and spontaneous combustion)
- preparation for fire/accident/emergency

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 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 oc, 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>