



Australian Government

# **RIIUMM305D Install and remove a secondary fan**

Release: 2

# RIIUMM305D Install and remove a secondary fan

## Modification History

| Release | Comment                                                                                                                                                                                                                                                                                                         |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | This unit replaces RIIUMM305A Install and remove a secondary fan                                                                                                                                                                                                                                                |
| 2       | Required frequency and volume of evidence amended in Performance evidence.<br>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 remove a secondary fan 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/removal of secondary fan | <ul style="list-style-type: none"><li>1.1. Access, interpret and apply installation of secondary fan documentation and ensure the work activity is compliant</li><li>1.2. Obtain, interpret, clarify and confirm work instructions</li><li>1.3. Select, and check for faults, equipment/tools for the activity</li><li>1.4. Select and wear personal protective equipment appropriate for work activities</li><li>1.5. Inspect and assess site conditions and determine if scaling is required and take action</li><li>1.6. Perform equipment pre-start checks start-up procedures</li><li>1.7. Identify, address and report potential risks and hazards</li><li>1.8. Communicate with other equipment operators and personnel</li></ul> |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                        |                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | using approved communication methods<br>1.9. Identify, address and report environmental issues<br>1.10. Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency<br>1.11. Use approved dust suppression and extraction methods<br>1.12. Ensure work area is well ventilated before entry        |
| 2. Install and maintain secondary fan  | 2.1. Isolate and lock out ventilation devices<br>2.2. Install and/or check secondary fan installation structure for soundness<br>2.3. Install and secure secondary fan using approved methods<br>2.4. Check secondary fan for correct operation in accordance with maintenance schedule and replace and/or adjust as required |
| 3. Remove secondary fan                | 3.1. Isolate and lock out ventilation devices<br>3.2. Safely loosen and remove secondary fan<br>3.3. Ensure the safety of personnel and associated equipment and services<br>3.4. Seal any reticulation system openings and prevent entry of foreign material                                                                 |
| 4. Conduct post operational procedures | 4.1. Carry out routine maintenance on equipment<br>4.2. Clean and store auxiliary services equipment<br>4.3. Complete housekeeping requirements<br>4.4. Process written and verbal recording and reporting requirements                                                                                                       |

## 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

RIIUMM305A Install and remove a secondary fan

## 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 RIIUMM305D Install and remove a secondary fan

### Modification History

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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 secondary fan installation and removal including:
  - using appropriate dust suppression and extraction methods
- works effectively with others to undertake and complete the installation and removal of a secondary fan that meets all of the required outcomes including:
  - communicating clearly and concisely with others to receive and clarify work instructions, and convey work progress
- demonstrates completion of the installation and removal of a secondary fan 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
  - completing installing and removing secondary fans
  - conducting secondary fan installation checks, including:
    - air filter restriction indicator
    - computer systems
    - display instrumentation and gauges (indicators, gauges, levels)
    - vibration
    - correct alignment
    - visual and audio warning devices and lights

- types of fans
- power source connection
- conducting routine maintenance on equipment and housekeeping activities
- maintaining written and verbal reporting requirements and procedures

## Knowledge Evidence

The candidate must demonstrate knowledge in installing and removing a secondary fan through:

- capabilities and limitations of secondary fans
- operational maintenance schedules and secondary fan installation checks
- basic geological and technical data
- installation and removal methods for secondary fans
- being prepared 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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