



Australian Government

RIIPBE201D Conduct aeration process

Release: 2

RIIPBE201D Conduct aeration process

Modification History

Release	Comment
1	This unit replaces RIIPBE201A Conduct aeration process
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 conduct aeration process 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

Elements and Performance Criteria

1. Plan and prepare for aeration activities	1.1. Access, interpret and apply aeration documentation and ensure the work activity is compliant 1.2. Obtain, read, interpret, clarify and confirm work requirements 1.3. Coordinate and communicate with other personnel using approved communication methods 1.4. Select and wear personal protective equipment appropriate for work activities 1.5. Perform equipment pre-start checks 1.6. Identify, address and report potential hazards, risks and environmental issues, and implement control measures 1.7. Obtain and interpret emergency procedures, and be prepared
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	for fire/accident/emergency
2. Start-up equipment in sequence	2.1. Carry out start-up procedures and complete start-up checks according to plant configurations and system requirements 2.2. Confirm plant is operational
3. Operate and monitor equipment	3.1. Read and interpret and apply data from equipment indicators to determine aeration efficiency 3.2. Continuously inspect and monitor operations/plant and catchment areas to identify process defects and potential problems 3.3. Adjust equipment to approved operating parameters to optimise and maintain efficient aeration to meet product quality targets 3.4. Determine the effects adjustments have on upstream or downstream outputs and communicate to others 3.5. Pass on end of shift information verbally or in writing to oncoming shift
4. Shutdown in sequence and/or isolate equipment	4.1. Shutdown or isolate equipment based on process and safety requirements 4.2. Perform post shutdown or isolation checks 4.3. Return equipment to service
5. Conduct housekeeping activities	5.1. Clear work area and dispose of or recycle materials 5.2. Clean and maintain condition of equipment, ensure suitability for use, and address/report issues 5.3. Manage and/or report hazards, and maintain a safe working environment 5.4. Process 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

RIIPBE201A Conduct aeration process

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 RIIPBE201D Conduct aeration process

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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 requirements, procedures and techniques for the safe, effective and efficient completion of aeration processes including:
 - conducting prestart, shutdown and secure of equipment
 - identifying and reporting all potential hazards, risks, environmental issues
 - applying operational safety requirements
 - accessing, interpreting and applying technical information
- works effectively with others to undertake and complete the aeration process in a way that meets all of the required outcomes including
 - using a range of communications techniques and equipment to convey information to others
 - maintaining written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to receive and clarify work instruction
- demonstrates completion of the conduction of aeration processes that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - coordinating aeration activity with others
 - reading and interpreting data from equipment indicators to determine aeration efficiency

- adjusting aeration equipment and communicating the impacts upstream and downstream
- isolating and shutting down the aeration equipment in sequence and perform checks
- returning aeration equipment to service

Knowledge Evidence

The candidate must demonstrate knowledge of conducting aeration processes through:

- applying, organisational and site requirements and procedures for conducting aeration processes including:
 - work health and safety
 - aeration plant isolation
 - complying with emergency and response procedures
 - complying with environmental requirements
 - finding faults
 - interpreting reports
 - using lift (manual, cranes and loads)
 - using hand and power tools
 - aeration process
- complying with breakdown procedures
- applying contaminant identification
- complying with emergency procedures
- applying equipment limitations and operating parameters
- complying with equipment safety requirements
- repair requirements
- interpreting metallurgical and technical data

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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