



Australian Government

RIIPHA303D Operate agglomeration circuit

Release: 2

RIIPHA303D Operate agglomeration circuit

Modification History

Release	Comment
1	This unit replaces RIIPHA303A Operate agglomeration circuit
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 operate agglomeration circuit 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 agglomeration process	1.1. Access, interpret and apply agglomeration circuit documentation and ensure the work activity is compliant 1.2. Obtain, read, interpret, clarify and confirm work requirements 1.3. Select, and check for faults, equipment/tools for work activities 1.4. Select and wear personal protective equipment appropriate for the activity 1.5. Identify and address potential risks, hazards and environmental issues, and implement control measures 1.6. Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency 1.7. Check and test remote control and equipment for correct
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	operation
2. Start-up agglomeration circuit	2.1. Carry out pre-start checks 2.2. Ensure that all agglomeration circuit drives are set to remote and ready for operation 2.3. Ensure that all downstream equipment is operational and ready to receive the agglomerated product 2.4. Ensure that all feed circuits (including specific feed blend requirements) to the agglomeration circuit are available and ready to operate 2.5. Initiate plant operator sequence start
3. Operate and monitor agglomeration circuit	3.1. Read and interpret data from equipment indicators to determine agglomeration circuit efficiencies 3.2. Continuously monitor circuit to identify defects and potential problems 3.3. Adjust equipment within approved operating parameters to optimise performance, maintain efficient agglomeration and to meet product quality targets 3.4. Monitor and adjust the feed rate 3.5. Monitor and control the addition rate of binding agent 3.6. Monitor and control the dosing rate of leaching solution 3.7. Monitor and control the dosing concentration of leaching solution 3.8. Monitor and adjust the drum speed ratio 3.9. Complete all required documentation clearly, concisely and on time 3.10. Communicate end of shift information to oncoming shift
4. Respond to contingencies	4.1. Respond to alarms 4.2. Clear circuit blockages in accordance with site procedures 4.3. Perform manual start-up of individual items of equipment 4.4. Report maintenance issues as required
5. Monitor quality of agglomerate	5.1. Carry out physical tests to check quality of agglomerate 5.2. Organise laboratory tests to check quality of agglomerate 5.3. Respond to test information
6. Shutdown and maintain of	6.1. Initiate circuit shutdown 6.2. Perform post shutdown checks

agglomeration circuit	6.3. Isolate equipment 6.4. Prepare agglomeration circuit for maintenance 6.5. Operate agglomeration drum using local control 6.6. Operate automated lubrication system and perform operator maintenance as required
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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

RIIPHA303D Operate agglomeration circuit

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 RIIPHA303D Operate agglomeration circuit

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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 applicable legislation, documentation, policies and procedures
- implements requirements, procedures and techniques for the safe, effective and efficient operation of an agglomeration circuit including:
 - identifying and diagnose faults
 - selecting and using the required hand and power tools
 - handling dangerous materials
 - working in confined spaces
 - read/listen and interpret instrumentation, indicators and alarms
 - operating lift equipment (manual, cranes and loads)
 - accessing, interpret and apply technical and safety information
 - operate relevant plant and machinery
 - identify and report equipment maintenance requirements
- works effectively with others to undertake and complete the operating an agglomeration circuit 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
 - organising work activities to meet all task requirements
 - communicating clearly and concisely with others to receive and clarify work requirements

- demonstrates completion of operating an agglomeration circuit that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
- starting up agglomeration circuit
 - operating and monitoring the agglomeration circuit
 - responding to contingencies
 - monitoring the quality of agglomerate
 - shutting down and maintaining the agglomeration circuit

Knowledge Evidence

The candidate must demonstrate knowledge in operating an agglomeration circuit through:

- accessing, interpreting and applying the organisation and site requirements and procedures for:

The candidate must demonstrate knowledge in operating an agglomeration circuit through:

- accessing, interpreting and applying the organisation and site requirements and procedures for:
- risk assessment and management
- statutory compliance
- applying equipment safety requirements
- complying environmental procedures
- complying with WHS procedures
- applying isolation procedures
- working in confined spaces
- applying procedures for operating agglomeration circuits
- identifying and report equipment maintenance requirements
- interpreting and apply survey information and plans
- operating relevant plant and machinery
- applying diagnostic / fault finding techniques
- operating relevant auxiliary equipment
- maintaining appropriate records
- complying with mine operational procedures
- applying agglomeration drum operations and components
- applying conveyor operations and components
- applying pump operations and components
- identifying plant and equipment limitations and operating parameters
- applying conveyor, pump and agglomeration drum maintenance requirements
- applying isolation standards and equipment isolation procedures
- using metallurgical and technical data (basic)
- 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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