



Australian Government

RIIPHA302D Operate and monitor filter processes

Release: 3

RIIPHA302D Operate and monitor filter processes

Modification History

Release	Comment
1	This unit replaces RIIPHA302A Operate and monitor filter processes
2	Removed repetition from Performance Criteria.
3	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 and monitor filter processes 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 filtering process	1.1. Access, interpret and apply filter processes documentation and ensure the work activity is compliant 1.2. Obtain, 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
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	for fire/accident/emergency 1.7. Communicate with other personnel using approved communication methods 1.8. Check and test remote control and monitoring systems for correct operation 1.9. Use approved dust suppression and extraction methods and ensure work area is ventilated
2. Start-up equipment in sequence	2.1. Carry out start-up checks and procedures according to plant configurations and system requirements 2.2. Confirm plant readiness for operation
3. Operate and monitor equipment	3.1. Take and interpret data from indicator readings to determine filtering efficiency 3.2. Continuously monitor plant and identify defects and potential problems 3.3. Adjust equipment to approved operating parameters to optimise performance, maintain efficient filtering and to meet product quality targets 3.4. Control feed to equipment 3.5. Monitor moisture in cake and density of filtrate 3.6. Monitor cleaning processes 3.7. Monitor and maintain air systems to specified moisture parameters 3.8. Maintain cleanliness of pressure/vacuum systems 3.9. Complete all required documentation clearly, concisely and on time
4. Shutdown in sequence and/or isolate equipment	4.1. Clear slurry from filtering circuit after commencing shutdown 4.2. Check and clean filter chamber and changes failed filter components 4.3. Shutdown or isolate equipment based on process and safety requirements 4.4. Perform post shutdown or isolation checks 4.5. Communicate end of shift information to oncoming shift
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. 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

RIIPHA302 Operate and monitor filter processes

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 RIIPHA302D Operate and monitor filter processes

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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 completion of filter processes operation and monitoring including:
 - starting up and shutting down equipment in sequence
 - selecting and using relevant tools and equipment
 - operating and monitoring equipment
 - identifying and diagnose faults
 - completing required documentation
 - conducting housekeeping activities
 - working in confined spaces
 - applying hazardous goods procedures
- works effectively with others to undertake and complete the operation and monitoring of filter processes 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 the operation and monitoring of filter processes that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - starting up equipment in sequence
 - operating and monitoring equipment, including:
 - determine **filtering** efficiency
 - monitor plant and identify defects and potential problems
 - adjust equipment to approved operating parameters to optimise performance,
 - maintain efficient filtering
 - control feed to equipment
 - monitor moisture in cake and density of filtrate
 - monitor **cleaning** processes
 - monitor and maintain air systems to specified moisture parameters
 - maintain cleanliness of pressure/vacuum systems
 - shutting down in sequence and/or isolating equipment
 - clearing slurry from filtering circuit after commencing shutdown
 - checking and clean filter chamber and changes failed filter components

Knowledge Evidence

The candidate must demonstrate knowledge of operation and monitoring of filter processes through:

- accessing, interpreting and applying the organisation and site requirements and procedures for:
 - managing risks, hazards and hazardous goods
 - addressing and reporting environmental issues
 - isolation and breakdown procedures and responsibilities
 - complying with equipment safety requirements
 - carrying out work according to air cleaning principles and systems
 - identifying and reporting defects
 - complying with WHS procedures
 - using operational procedures and checks
 - working in confined spaces
 - contaminant identification
 - identifying consequences of spills
- changing filters
- identifying air systems plant and configuration
- applying filter plant configurations and functions
- comply with filter plant operation
- identifying plant and equipment limitations and operating parameters
- complying with filtering procedures

- implementing troubleshooting techniques
- applying isolation procedures
- using metallurgical and technical data (basic)
- identifying ore characteristics
- 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.
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*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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