



Australian Government

RIIPBP302D Control operations in acid plant

Release: 2

RIIPBP302D Control operations in acid plant

Modification History

Release	Comment
1	This unit replaces RIIPBP302A Control operations in acid plant
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 control operations in acid plant in Metalliferous mining.

This unit is appropriate for those working in technician 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 control of acid plant operations	1.1. Access, interpret and apply acid plant operations documentation and ensure the work activity is compliant 1.2. Communicate with other personnel by approved methods 1.3. Obtain, read, interpret, clarify and confirm work requirements 1.4. Select and wear personal protective equipment appropriate for the activity 1.5. Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency 1.6. Identify and address potential risks, hazards and environmental issues, and implement control measures 1.7. Ensure area is well ventilated before entry into work area
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	1.8. Perform pre-start checks to ensure correct equipment operation
2. Manage acid plant operations	2.1. Monitor performance of acid plant components regularly 2.2. Regulate flow of substrate between process components to maximise production 2.3. Regulate heat exchangers 2.4. Handle acid plant products and reagents safely at all times 2.5. Monitor and adjust volume of gas through acid plant 2.6. Regulate gas impurity removal systems 2.7. Regulate by-product disposal 2.8. Monitor available acid plant storage capacity 2.9. Complete all required written documentation for shift handover 2.10. Pass on all shift information verbally or in writing to oncoming shift
3. Conduct housekeeping activities	3.1. Review plant performance with oncoming shift 3.2. Perform cleaning/housekeeping of plant and area and report associated hazards

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

RIIPBP302A Control operations in acid plant

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 RIIPBP302D Control operations in acid plant

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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 control of acid plant operations, including:
 - selecting and using the required hand and power tools
 - handle dangerous materials
 - read and interpret instrumentation
 - operate lift equipment (manual, cranes and loads)
- works with others to undertake and complete the control of acid plant operations 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 to confirm work/plans/specifications
 - passing on end of shift information
 - reviewing plant performance with oncoming shift
- demonstrates completion of the control of acid plant operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - regulating the heat exchanger
 - monitoring and adjusting volume of gas
 - regulating gas impurity removal system

- monitor storage capacity
- regulating by-product disposal

Knowledge Evidence

The candidate must demonstrate knowledge of controlling acid plant operations through:

- applying legislative, organisation and site requirements and procedures for:
 - risk assessment and management
 - statutory compliance
 - work health and safety
 - confined space entry
 - identifying and handling dangerous materials
 - applying wet and dry working procedures
 - applying site procedures/site safety requirements
 - applying WHS procedures
 - applying operational procedures and checks
 - interpreting equipment safety requirements
 - using hazardous goods procedures and consequences of spills and identifying hazardous goods
 - identifying repair requirements
 - applying isolation procedures
 - applying emergency procedures
 - identifying environmental procedures
 - applying breakdown procedures
- reading and interpreting instrumentation/interpret reports
- identifying and diagnosing faults
- using lift (manual, cranes and loads)
- maintaining records
- applying safe work practices
- identifying and using hand and power tools
- applying contaminant identification
- identifying sources of acid plant materials
- interpreting gas purification process
- interpreting drying process
- applying conversion and absorption
- identifying storage methods and capacities
- equipment limitations and operating parameters
- using technical data (basic)
- understanding pumping system
- identifying reagent types
- using sampling

- identifying types of ores (basic)

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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