



Australian Government

Assessment Requirements for RIIPBE203D Conduct precipitation operations

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIPBE202A Conduct precipitation operations
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.

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 documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of precipitation operations 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 precipitation 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 clearly and concisely with others to receive and clarify work instruction
- demonstrates completion of the conduction of precipitation operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - coordinating precipitation activity with others
 - adjusting equipment and communicating effects upstream and downstream
 - adding reagents

- isolating and shutting down precipitation equipment in sequence and perform checks
- performing minor maintenance
- returning digestion equipment to service

Knowledge Evidence

The candidate must demonstrate knowledge of conducting precipitation operations through:

- apply organisation and site requirements and procedures for conducting precipitation operations including:
 - end-point identification
 - diagnosing faults
 - identifying and address hazards
 - interpreting reports
 - lift (manual, cranes and loads)
 - maintaining records
 - reporting defects
 - using relevant hand and power tools
 - breakdown procedures
 - contaminant identification
 - precipitation process
 - chemistry - basic solubility
 - sulphide precipitation
 - neutralisation precipitation
 - liquid and solid separation processes in precipitation and crystallisation
 - flocculation agents
 - filtration methods
 - emergency procedures
 - environmental procedures
 - equipment safety requirements
 - seeding and crystallisation processes
 - wet and dry working procedures
- identifying equipment limitations and operating parameters
- identifying repair requirements
- interpreting and applying with isolation procedures
- interpreting and applying metallurgical and technical data (basic)
- describing pumping system and flow charts (pipeline and sprinkler systems)
- identifying reagent types
- monitoring 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.	

*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

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>