



Australian Government

Assessment Requirements for RIIPBE203D Conduct precipitation operations

Release: 1

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Modification History

Not applicable.

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 consistent timely completion of precipitation operations that safely, effectively and efficiently meet all of the required outcomes on a minimum of three (3) separate occasions 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
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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)
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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 using Resources and Infrastructure Industry sector specific policies, procedures, processes and operational manuals; and,
- an assessor must demonstrate the skills and knowledge of this unit through five (5) years of current and continuous work with the Industry sector and must hold the TAE Assessor Skill Set or equivalent.
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Links

SkillsDMC RII Companion Volumes - <http://www.skillsdmc.com.au/>