Australian Government

RIIPBE302D Conduct bacterial oxidation

Release: 2

RIIPBE302D Conduct bacterial oxidation

Modification History

Release	Comment
1	This unit replaces RIIPBE302A Conduct bacterial oxidation
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 conduct bacterial oxidation 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 bacterial oxidation process	1.1. Access, interpret and apply bacterial oxidation documentation and ensure the work activity is compliant 1.2. Obtain, read, interpret, clarify and confirm work requirements 1.3. Coordinate and communicate with other personnel using approved communication method 1.4. Select and wear personal protective equipment appropriate for work activities 1.5. Select appropriate type of auxiliary equipment for work activities 1.6. Perform equipment pre-start checks to ensure equipment is ready for operation 1.7. Identify and address potential risks, hazards and

	environmental issues, and implement control measures 1.8. Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Start-up equipment in sequence	2.1. Carry out start-up procedures and complete start-up checks according to plant configurations and system requirements 2.2. Confirm plant is operational
3. Operate and monitor equipment	3.1. Read and interpret data from equipment indicators to determine bacterial oxidation progress 3.2. Continuously inspect and monitor plant and identify bacterial oxidation process defects and potential problems 3.3. Assess sulphuric content of ore according to bacterial oxidation parameters 3.4. Make appropriate adjustments to oxidation process to optimise targets 3.5. Adjust equipment to approved operating parameters to optimise oxidation performance, maintain efficient oxidation and to meet product quality targets 3.6. Control feed to oxidation equipment 3.7. Add required nutrients and oxygen to approved operating parameters 3.8. Complete all required documentation clearly, concisely and on time 3.9. Pass on end of shift information verbally or in writing to oncoming shift
4. Shutdown in sequence and/or isolate equipment	4.1. Shutdown or isolate equipment based on process and safety requirements 4.2. Perform post shutdown or isolation checks 4.3. Return equipment to service
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. Manage and/or report hazards, and maintain a safe working environment 5.4. 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

RIIPBE302A Conduct bacterial oxidation

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272