



Australian Government

Department of Education, Employment and Workplace Relations

RIIUMM301A Conduct wet filling activities

Release: 1

RIIUMM301A Conduct wet filling activities

Modification History

Not applicable.

Unit Descriptor

This unit covers the conduct of wet filling activities in the metalliferous mining industry. It includes organising for wet filling, filling voids, and draining and monitoring fills.

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.

Application of the Unit

This unit is appropriate for those working in an operational role at worksites within:

- Metalliferous mining

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
---	--

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Organise for wet filling	1.1. Access, interpret and apply compliance documentation relevant to the work activity 1.2. Plan and prepare work 1.3. Receive, interpret and clarify shift changeover details 1.4. Select appropriate personal protective equipment 1.5. Select approved dust suppression and extraction methods 1.6. Select appropriate type of equipment , materials and safety equipment according to job type 1.7. Perform equipment pre-start checks to ensure equipment is ready for operation 1.8. Identify, manage and/or report potential risks and hazards 1.9. Erect physical barricades and signs and/or safety provisions to prevent unauthorised entry of personnel and equipment 1.10. Manage environmental requirements 1.11. Adhere to emergency procedures to ensure safety of personnel, equipment and site 1.12. Inspect and assess site conditions to determine if scaling is required and take action according to site requirements 1.13. Ensure area is well ventilated before entry into work area
2. Fill voids	2.1. Fill void in controlled manner according to characteristics of fill
3. Drain and monitor fill	3.1. Manage and monitor drainage system according to engineering specifications 3.2. Inspect bulkheads for faults, water flow and/or defects 3.3. Monitor and manage dimensions of fill utilising approved indicators 3.4. Complete all required documentation clearly, concisely and on time 3.5. Pass on end of shift information to

	oncoming shift
--	----------------

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes the ability to carry out the following, as required to conduct wet filling activities:

- apply legislative, organisation and site requirements and procedures for the conduct of wet filling activities
- identify hazards
- monitor filling
- apply safe work practices
- communicate with other personnel

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes knowledge of the following, as required to conduct wet filling activities:

- backfilling procedures
- emergency procedures
- equipment safety requirements
- hazardous substances (handling and transport)
- mine operational system
- mining legislation
- OHS procedures
- operational procedures and checks
- site safety requirements

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following: • knowledge of the requirements, procedures and instructions for the conduct of wet filling activities • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of the conduct of wet filling activities • working with others to undertake and complete the conduct of wet filling activities that meets all of the required outcomes • consistent timely completion of the conduct of wet filling activities that safely, effectively and efficiently meets the required outcomes
Context of and specific resources for assessment	• This unit must be assessed in the context of the work environment. Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. • Assessment of this competency requires typical resources normally used in a resources and infrastructure sector environment. Selection and use of resources for particular worksites may differ due to the site circumstances. • The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those required on the job.

	• Customisation of assessment and delivery environment to sensitively accommodate cultural diversity. • Aboriginal people and other people from a non English speaking background may have second language issues. • Where applicable, physical resources should include equipment modified for people with disabilities. Access must be provided to appropriate learning and/or assessment support when required.
Method of assessment	This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods: • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: • implementation of appropriate requirement, procedures and techniques for the safe, effective and efficient achievement of required outcomes • consistent achievement of required outcomes • first hand testimonial evidence of the candidate's: • working with others to undertake and complete the conduct of wet filling activities
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Relevant compliance documentation may include:	• legislative, organisational and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Equipment may include:	• hand tools • LHD • slurry pump • recommended/required PPE
Dust suppression and extraction methods may include:	• mobile/fixed sprays • screens (vent doors, vent blinds) • use of water trucks • ventilation bags operational • watering down site
Legislation may include Acts and regulation dealing with:	• mining safety and health • mine inspection • OHS • explosives
Potential risks and hazards may include:	• contaminants • faulty equipment • fumes • ground conditions (unstable) • high air and water pressures • high voltage electricity • hydraulic oil pressure • lack of ventilation • tripping hazards • unauthorised personnel
Fill may include:	• combination of wet and dry • paste • wet

Bulk head faults and defects may include:	• cracks • dampness on bulk head • seepage • stress fractures
Void may include:	• bench • open stope
Fill methods may include:	• dumping over edge

Unit Sector(s)

Metalliferous Mining (Underground)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.