



Australian Government

Department of Education, Employment and Workplace Relations

RIIUMM307A Maintain underground stockpiles

Release: 1

RIIUMM307A Maintain underground stockpiles

Modification History

Not applicable.

Unit Descriptor

This unit covers the maintenance of underground stockpiles in the metalliferous industry. It includes organising for stockpiling, stockpiling materials, and conducting housekeeping activities. 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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Organise for stockpiling	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 personal protective equipment appropriate for work activities 1.5. Inspect and assess site conditions to determine if scaling is required and take action 1.6. Identify, address and report potential risks and hazards 1.7. Identify, address and report environmental issues 1.8. Adhere to emergency procedures in case of fire and/or accident 1.9. Use approved dust suppression and extraction methods 1.10. Ensure area is well ventilated before entry into work area
2. Stockpile materials	2.1. Ensure stockpile site has adequate ground support and is accessible 2.2. Place stockpile materials in correct location to ensure efficient identification and access and to prevent mixing of materials 2.3. Operate equipment according to manufacturer's instructions and avoid damaging to the stockpile and surrounding site 2.4. Use appropriate stockpiling techniques to maximise the capacity of the stockpiling site 2.5. Identify and remove contaminants 2.6. Complete all required documentation clearly, concisely and on time 2.7. Pass on end of shift information to oncoming shift
3. Conduct housekeeping activities	3.1. Clean equipment to maintain condition of equipment and ensure safe and efficient

	operations 3.2. Clean and store auxiliary service equipment
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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 maintain underground stockpiles:

- apply legislative, organisation and site requirements and procedures for the maintenance of underground stockpiles
- use driving techniques
- use dumping techniques
- operate, maintain and clean equipment
- interpret ground conditions
- employ lifting techniques
- employ pushing techniques
- use hand and power tools

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 maintain underground stockpiles:

- drainage processes
- dumping procedures
- equipment parking
- equipment processes, technical capability and limitations
- equipment safety requirements
- geological and technical data (basic)
- hauling procedures
- incline and decline rules
- isolation procedures
- material placement procedures
- mining regulations
- operational procedures and checks
- primary and secondary ventilation procedures
- principles of contamination
- signage erection procedures
- site procedures
- start-up and shutdown procedures
- stockpiling characteristics and limitations

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|---|
| <ul style="list-style-type: none">• stockpiling procedures• underground procedures |
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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 maintaining underground stockpiles • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of maintaining underground stockpiles • working with others to undertake and complete the maintenance of underground stockpiles that meets all of the required outcomes • consistent timely completion of underground stockpile maintenance 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 maintenance of underground stockpiles
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:	• bins • conveyors • dozers • dust suppression equipment • feeders • gates • magnets • ploughs • reclaimers • samplers • shovels • stackers • trucks • weighers • recommended/required PPE
A stockpile may be temporary or permanent and may be:	• a hole • back fill • formation of earthworks • pass • stope • tailings dams
Contaminants may include:	• leaching into water table • mixing of incompatible grades of ore • cigarette butts • consumables • ear plugs

	• metal bucket teeth • metal or steel rods • old fencing • old piping • plastic • timber • wet fill
Stockpile materials may include:	• backfill • bricks • cement • dilution material • gangue • mineralised waste • mullock • rehabilitation soils and other materials (clay bands, gravel) • road base • sand • secondary material • various grades of ore
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:	• brake and steering failure • not following safety precautions near an open stope • tipping hazards • unauthorised personnel, contaminants
Environmental issues may include:	• dust • fumes noise • water

Unit Sector(s)

Metalliferous Mining (Underground)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.