



Australian Government

Department of Education, Employment and Workplace Relations

RIIUMM203A Prepare and perform manual scaling operations

Release: 1

RIIUMM203A Prepare and perform manual scaling operations

Modification History

Not applicable.

Unit Descriptor

This unit covers the preparation and performance of manual scaling operations in the metalliferous mining industry. It includes planning and preparing for manual scaling, performing manual scaling operations, 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 assistant 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. Plan and prepare for manual scaling	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 change-over details including ground conditions 1.4. Select personal protective equipment appropriate for work activities 1.5. Select scaling and ancillary equipment appropriate to the task 1.6. Ensure work area is ventilated
2. Perform manual scaling operations	2.1. Inspect and assess site conditions to determine scaling requirements and starting point 2.2. Ensure equipment is safe and ready for use 2.3. Inspect and determine appropriateness of conducting manual scaling 2.4. Identify, manage and/or report hazards 2.5. Establish exclusion zone to prevent unauthorised access 2.6. Maintain a suitable working posture for manual scaling 2.7. Ensure maintenance of safe egress 2.8. Conduct manual scaling according to site procedures 2.9. Maintain services 2.10. Maintain dust controls as manual scaling operations advance
3. Conduct housekeeping activities	3.1. Clean and return ancillary equipment 3.2. Complete all required documentation to site requirements

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 prepare and perform manual scaling operations:

- apply legislative, organisation and site requirements and procedures for preparation and performance of manual scaling operations
- identify hazards
- work safely
- communicate effectively
- manually handle

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 prepare and perform manual scaling operations:

- environmental procedures
- equipment safety requirements
- ground conditions
- ground control methods
- dealing with misfires
- inspection procedures
- isolation procedures
- mining legislation
- emergency procedures

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 preparing and performing manual scaling operations • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of manual scaling preparation and performance • working with others to undertake and complete the preparation and performance of manual scaling that meets all of the required outcomes • consistent timely completion of manual scaling operation preparation and performance 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 preparation and performance of manual scaling operations
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
Ancillary equipment may include:	- lighting - hoses water / air - lifting and handling equipment - mobile equipment (e.g. support vehicles) - paint (e.g. spray cans) - power tools and hand tools - scaling bars of various lengths - recommended/required PPE - work platforms (e.g. scissor lift, basket) - ventilation equipment
Ventilated means quality and quantity of air is suitable for the work environment according to site and legislative requirements.	
Dust controls may include:	- mobile/fixed sprays - ventilation - hand watering
Exclusion zone indicators may include:	- flags - tapes - witches hats - signs including: - danger - traffic control signs
Shift change-over details may include:	- equipment and resource allocations/requirements - ground conditions

	• hazard reports • supervisor's instructions
Legislation may include Acts and regulation dealing with:	• mining safety and health • mine inspection • OHS • explosives
Site conditions may include:	• accessibility • ground conditions • ground stability (e.g. broken, blocky, flaky, stable, compacted, shears, faults, folds) • noise • ventilation • visibility • temperature, humidity
Hazards may include:	• ground control failure • lack of ventilation or oxygen • loose material on working surface • misfires • gases • entry by unauthorised personnel • uncovered open holes • unstable ground conditions • atmospheric contaminants • unstable footing • poor housekeeping
Inspections may include:	• visual inspection • sounding • watering • air flow • listening for rock noise (ground talking)
Suitable working posture may include:	• both feet on firm footing • holding bar in correct position • maintaining balance
Services may include:	• compressed air • water • ventilation

Unit Sector(s)

Metalliferous Mining (Underground)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.