

RIIUND302A Conduct cage operations

Release: 1



RIIUND302A Conduct cage operations

Modification History

Not applicable.

Unit Descriptor

This unit covers the conduct of cage operations in the resources and infrastructure industries. It includes organising cage operations, operating cages, transporting explosives in the cage, and carrying out operator maintenance. 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

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.
---	--

Approved Page 2 of 10

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Organise cage operations	1.1. Access, interpret and apply <i>compliance</i> documentation relevant to the work activity
	1.2. Receive, interpret and clarify shift changeover details
	1.3. Select personal protective equipment appropriate for work activities
	1.4. Perform equipment and work area pre-start checks to ensure equipment is ready for operation
	1.5. Check records for outstanding maintenance/inspections and recorded defects to establish the operational status of equipment and if defective take action
	1.6. Identify, address and report <i>potential risks</i> and hazards
	1.7. Carry out start-up procedures, including checking that area is clear for operations
	1.8. Identify, address and report <i>environmental issues</i>
	1.9. Adhere to emergency procedures
2. Operate cage	2.1. Load cage within <i>capacity</i> and compliance with specified limits
	2.2. Ensure that <i>loads</i> in or attached to cage, are positioned and secured prior to transit
	2.3. Communicate with relevant personnel
	2.4. Operate cage safely in the working environment
	2.5. Monitor and manage cage performance using appropriate <i>indicators</i> to aid safe operations
	2.6. Complete all required documentation clearly, concisely and on time
	2.7. Pass on end of shift information to oncoming shift
3. Transport explosives in the	3.1. Identify explosives used on site
cage	3.2. Determine and ensure the segregation and separation of detonators and explosives
	3.3. Secure and transport blasting agents and explosives
	3.4. Track and record movement of explosives

Approved Page 3 of 10

	and detonators
4. Carry out operator maintenance	4.1. Isolate cage before conducting <i>operator maintenance</i>
	4.2. Service and make minor adjustments to equipment
	4.3. Restore cage operations

Approved Page 4 of 10

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 cage operations:

- apply legislative, organisation and site requirements and procedures for conducting cage operations
- apply standard operating practices and procedures around shafts
- work safely and within level of competence
- clean equipment
- grease
- communicate and report
- 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 conduct cage operations:

- the key areas of mining acts and regulations pertaining to winding
- shaft operations
- shaft installations
- identification of defects relevant to cage operations through inspection or observation
- trip and fault procedures and abnormal conditions
- site winder emergency procedures
- communication system between cage and winder
- recording and logging requirements for winder drivers, and electrical and mechanical maintenance personnel
- isolation and permit-to-work procedures
- mine ventilation system
- site procedures
- in-shaft communication equipment

Approved Page 5 of 10

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 conducting cage operations implementation of requirements, procedures and techniques for the safe, effective and efficient completion of cage operations working with others to undertake and conduct cage operations that meet all of the required outcomes
	consistent timely conduct of cage operations that safely, effectively and efficiently meet 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 should sensitively accommodate

Approved Page 6 of 10

	 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 requirements, 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 conduct cage operations
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

Approved Page 7 of 10

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:

- legislation, which may include Acts and regulation dealing with:
 - · mining safety and health
 - · mine inspection
 - OHS
 - explosives
- organisational and site requirements and procedures which may include:
 - clean up
 - equipment shutdown and isolation procedures
 - · evacuation procedures
 - First Aid
 - notifying relevant authorities
 - permit-to-work systems
 - safety equipment
 - use of personal protective equipment
 - communication procedures (e.g. with winder operator)
 - portable electric apparatus procedures
 - fall arrestor and harness procedures
 - confined spaces
- manufacturer's guidelines and specifications
- Australian standards
- Employment and workplace relations legislation
- Equal Employment Opportunity and Disability Discrimination legislation

Potential risks and hazards may include:

- blockages or obstructions
- communication failure
- oversized loads
- unauthorised personnel
- · unsafe ground
- poor visibility

Approved Page 8 of 10

	• explosion
	 asphyxiation and drowning
Checking that area is clear for	• external damage/defects/wear
operations may include:	cage arresting and slack rope systems
	cleanliness of cage and plats
	• computer systems
	danger/out of service tags
	• display instrumentation and gauges (indicators,
	gauges, laser levels)
	 fire suppression unit (pins in position in triggers)
	• loose wheels
	 communication systems
	lubricants
	 idle positioned and running
	 guides and shoes
	 plat and cage illumination
	• oil leaks
	 personnel and materials proximity to shaft
	 portable fire extinguisher (bracket, gauge,
	hose, ease of access)
	• cage doors
	 cage ropes and attachments
	 visual and audio warning devices and lights
Engineer montal iggreg man	• dust
Environmental issues may include:	• fumes
merude.	• noise
	• water
	• heat
	 flammable and noxious gases
	• flammable dust
	efficient and safe operating speed
Capacity of the cage may be affected by:	 personnel carrying capacity
affected by.	 operating limitations
	 type of activities performed
	 weight and/or load limitations
Loads may include:	peopleautomotive diesel fuel
	• explosives (including detonators)
	• consumables
	drilling equipment
	trackless vehicles

Approved Page 9 of 10

	track vehicles
	ground support materials
	• cement
	• lubricants
	• paints
	other hazardous substances
	track laying materials
Indicators may include:	computer indicators
	cage indicators
	plat indicators
	communication and signalling systems
Operator maintenance may	• greasing
include:	rope adjustments
	cage door adjustments
	tightening loose fittings

Unit Sector(s)

Underground Mining

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.

Approved Page 10 of 10