



Australian Government

RIIUND302E Conduct cage operations

Release: 1

RIIUND302E Conduct cage operations

Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to conduct cage operations in coal and metalliferous mining, including transporting explosives and monitoring and managing cage performance.

It applies to those working in operational roles. They generally work under minimal supervision to undertake a broad range of tasks in varied work contexts, using some discretion and judgement in selecting equipment, services or contingency measures.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories and industry sectors. Users must check requirements with relevant body before applying the unit.

Unit Sector

Coal mining

Metalliferous mining

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare for conducting cage operations	1.1 Access, interpret, confirm and clarify shift changeover details 1.2 Access, interpret and apply documentation required for conducting cage operations 1.3 Select and wear personal protective equipment according to site requirements 1.4 Perform equipment and work area prestart checks according to site requirements 1.5 Check records for outstanding maintenance/inspections and recorded defects and respond according to site requirements

ELEMENT	PERFORMANCE CRITERIA
	1.6 Identify and address potential risks, hazards and environmental issues and implement control measures according to site requirements 1.7 Carry out start-up procedures and confirm work area is clear for operations according to site requirements
2. Operate cage	2.1 Load cage according to manufacturer specifications and site requirements 2.2 Position and secure loads in, or attached to, cage according to job requirements 2.3 Communicate with relevant personnel within scope of own role 2.4 Operate cage according to manufacturer specifications and job requirements 2.5 Monitor and manage cage performance using appropriate indicators 2.6 Complete documentation according to site requirements 2.7 Pass on end of shift information to oncoming shift according to site requirements
3. Transport explosives in the cage	3.1 Identify explosives used on site 3.2 Determine and confirm the segregation and separation of detonators and explosives 3.3 Secure and transport blasting agents and explosives according to job and site requirements 3.4 Track and record movement of explosives and detonators according to site requirements
4. Carry out operator maintenance	4.1 Isolate cage according to manufacturer specifications and site requirements 4.2 Service and make minor adjustments to equipment according to manufacturer specifications and site requirements 4.3 Restore cage operations according to manufacturer specifications and site requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Numeracy	Calculates basic measurements including masses and dimensions
Reading	Identifies and interprets information from workplace documentation

SKILL	DESCRIPTION
	and legislation
Self-management	Monitors and minimises own exposure to worksite risks and hazards during activities
Writing	Completes workplace reports using sector-specific vocabulary, grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIIUND302D Conduct cage operations.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIIUND302E Conduct cage operations

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- conduct cage operations on at least two occasions, including:
 - completing start-up procedures
 - transporting explosives
 - monitoring and managing cage performance using indicators
 - isolating, servicing, cleaning and adjusting the cage.

During the above, the candidate must:

- locate and apply relevant documentation, policies and procedures and confirm work activity is compliant
- work effectively with others to conduct cage operations in a way that meets required outcomes, including:
 - organising work activities to meet task requirements
 - communicating clearly and concisely with others to receive and clarify work instructions
 - complying with reporting requirements and procedures
 - determining coordination requirements throughout work activities.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- key legislation required to conduct cage operations, including those relating to:
 - mining safety and health
 - mine inspection
 - work health and safety

- explosives
- key policies, procedures and documentation required to conduct cage operations
- techniques for identifying defects relevant to cage operations through inspection or observation
- characteristics, technical capabilities and limitations of cage types, systems, operations and relevant equipment, including:
 - cage capacity variables, including:
 - efficient and safe operating speed
 - personnel carrying capacity
 - operating limitations
 - type of activities performed
 - weight and/or load limitations
 - cage loads, including:
 - people
 - automotive diesel fuel
 - explosives (including detonators)
 - consumables
 - drilling equipment
 - track and trackless vehicles
 - materials
 - indicators, including:
 - computer indicators
 - cage indicators
 - communication and signalling systems
 - trip and fault procedures and abnormal conditions
 - communication system between cage and winder
 - isolation and permit-to-work procedures
 - mine ventilation systems
 - in-shaft communication equipment
- principles and techniques for securing, transporting and tracking movements of explosives in cage operations
- principles and techniques for identifying and responding to relevant hazards and emergencies
- site requirements for processing records and reporting requirements
- techniques for coordinating and communicating job activities with others.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - cage

- personal protective equipment
- equipment required to conduct cage operations
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
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Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 years
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no industry standard is specified should comply with any relevant regulation.	

*Guidance on simulated environments has been stipulated in the Companion Volume Implementation Guide located on VETNet.

**Assessors can demonstrate current work experience through employment within industry in a role relevant to the outcomes of the unit; or, for external assessors this can be demonstrated through exposure to industry by conducting a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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