



Australian Government

RIIPEO302E Operate and monitor ore car dumpers

Release: 1

RIIPEO302E Operate and monitor ore car dumpers

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 operate and monitor ore car dumpers in coal and metalliferous mining, including carrying out rail, plant and equipment isolations and routine operational maintenance.

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

No licensing, legislation, or certification requirements apply to this unit at the time of publication.

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. Prepare for car dumper operations	1.1 Access, interpret and apply documentation required for ore car dumpers 1.2 Obtain, interpret and clarify and confirm work requirements before proceeding 1.3 Identify yard layout limit and locations of derailleurs 1.4 Identify and address potential risks, hazards and environmental issues and implement control measures according to site requirements 1.5 Obtain and interpret emergency procedures and identify steps required to respond to emergencies

ELEMENT	PERFORMANCE CRITERIA
	1.6 Select and wear personal protective equipment according to site requirements 1.7 Identify locations of emergency stop devices 1.8 Locate first aid areas
2. Conduct and monitor car dumper operations	2.1 Communicate work activities with others within scope of own role 2.2 Assist rail operations to position ore cars in the car dumper according to job requirements 2.3 Confirm correct plant operation according to job requirements 2.4 Carry out car dumper prestart checks on all levels according to manufacturer specifications and site requirements 2.5 Conduct prestart checks and plant inspection and identify, rectify and report defects according to site requirements 2.6 Conduct car dumper operations according to job requirements and manufacturer specifications 2.7 Respond or report monitoring systems and alarms according to site requirements 2.8 Monitor and confirm safe operation of ore handling system and equipment
3. Maintain car dumper equipment	3.1 Carry out rail, plant and equipment isolations according to manufacturer specifications and site requirements 3.2 Carry out routine operational maintenance according to site requirements 3.3 Inspect and maintain the work area according to site requirements
4. Shutdown car dumper equipment	4.1 Carry out car dumper shutdown procedures according to manufacturer specifications and site requirements 4.2 Isolate fixed plant and equipment according to manufacturer specifications and site requirements 4.3 Perform post shutdown and isolation checks according to site requirements 4.4 Return dumper equipment to service according to manufacturer specifications and site requirements 4.5 Provide operator support for maintenance tasks according to site requirements 4.6 Complete documentation according to site requirements 4.7 Communicate key job details to relevant personnel according to 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 mass and dimensions
Reading	Identifies and interprets information from site requirements and documentation
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 RIIPEO302D Operate and monitor ore car dumpers.

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 RIIPEO302E Operate and monitor ore car dumpers

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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:

- operate and monitor ore car dumpers on at least two occasions, including:
 - completing assessment of yard layout limit and locations of derailleurs
 - conducting equipment isolation, inspections and checks
 - conducting shutting down and isolating car dumpers
 - identifying locations of emergency stop devices.

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 operate and monitor ore car dumper and equipment that meets required outcomes, including:
 - using a range of communications techniques and equipment to convey information to others
 - maintaining reporting requirements and procedures
 - communicating to confirm work requirements.

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 policies, procedures and documentation required to conduct conveyor-car high wall mining operations, including:
 - operational safety requirements
 - site and equipment safety procedures
 - site environmental requirements

- principles and techniques for assessing yard layout limits and derailler locations
- principles and techniques for communication, including:
 - two way radios
 - hand signals
 - underground cap lamp signals
 - team briefing
 - shift changeover meeting
- characteristics, technical capabilities and limitations of ore car dumpers, including:
 - prestart checks, including:
 - availability of equipment
 - detection of conditions that are unusual
 - job requirements
 - personnel availability
 - levels
 - communications
 - start-up checks, including:
 - cameras and monitoring
 - interlocks
 - distribution control system
 - hydraulic systems
 - pumps and pumping systems
 - screen inspections
 - valves
 - visual and audible warning devices and lights
 - suppression systems
 - car positioner
 - shutdown and isolation checks and procedures
 - levels, including:
 - ground
 - barrel
 - trunnion
 - vault
 - apron
- characteristics, technical capabilities and limitations of relevant plant and equipment, including:
 - emergency stop devices
 - distribution control system (DCS)
 - motors/pumps and pumping systems
 - hydraulic systems and equipment
 - conveyors and conveyor systems

- compressors and compressed air systems
- fans and guards
- conveyors/conveyor systems
- rollers
- grates
- hoses (air and water)
- scrubbers
- gauges and meters
- feeders
- sumps
- limit switches
- car dumpers
- car positioner
- techniques for applying basic geological, geographical and survey data
- principles and techniques for identifying and responding to relevant hazards and emergencies
- site requirements for housekeeping, completing maintenance 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:
 - personal protective equipment
 - equipment required to conduct conveyor-car high wall mining 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
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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