



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **RIIUND304A Recover equipment**

**Release: 1**

## RIIUND304A Recover equipment

### Modification History

Not applicable.

### Unit Descriptor

This unit covers the recovery of equipment in the resources and infrastructure industries. It includes planning and preparing for recovery, recovery and access of equipment 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:

- Coal mining
- 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

<p>Elements describe the essential outcomes of a unit of competency.</p>	<p>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.</p>
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## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare for recovery	1.1. Access, interpret and apply <b><i>compliance documentation</i></b> relevant to the work activity 1.2. Obtain, interpret and clarify details of the recovery requirements 1.3. Access and apply <b><i>safety information and procedures</i></b> including use of personal protective equipment 1.4. Select and prepare <b><i>materials</i></b> required for the task 1.5. Identify, address and report <b><i>potential hazards and risks</i></b> , and <b><i>environmental and heritage issues</i></b> 1.6. Conduct <b><i>pre-start checks</i></b> to ensure equipment is ready for operation 1.7. Assist in the preparation of a recovery plan
2. Recover and access equipment	2.1. If necessary, carry out pre-start, start-up, park-up and shutdown 2.2. Install and operate <b><i>recovery equipment</i></b> within the limitations of the site 2.3. Recover equipment systematically using approved methods/plans, with minimal loss and damage of equipment 2.4. Carry out pushing and towing of equipment and plant safely and in accordance with equipment capabilities 2.5. Apply and interpret diagnostic operations on recovered equipment 2.6. Assess if decommissioning of equipment is required and take action if necessary
3. Conduct housekeeping activities	3.1. Clean equipment 3.2. Carry out, identify and manage removal of spills 3.3. Clean and store attachments and other ancillary equipment 3.4. Complete all required records and documentation accurately and promptly

## 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 recover equipment:

- apply legislative, organisation and site requirements and procedures for recovery of equipment
- apply operational safety requirements
- access, interpret and apply technical, environmental and geological information
- communicate and coordinate activities with others
- apply risk analysis processes
- analyse recovery methods suitable to the situations
- operate equipment
- anticipate potential hazards
- analyse and respond to changing circumstances
- apply diagnostic techniques
- diagnose problems
- make decisions
- direct operations
- apply driving techniques
- identify hazards/handle hazardous goods
- interpret ground conditions
- interpret plans, reports, maps, specifications
- maintain records/monitor operations
- organise work tasks/employ safe work practices
- report defects
- select and fit personal protective equipment
- work in a team
- use communications equipment
- use computer systems
- 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 recover equipment:

- operational safety requirements
- mine operational procedures
- geological and environmental conditions in the recovery area

- relevant risk management process
- potential hazards and remedial or response actions
- available recovery methods
- recovery equipment and materials capabilities and characteristics
- loss and damage causes and control techniques
- recovery site control procedures
- operational signalling procedures
- mine communication systems and procedures
- emergency procedures/ shutdown procedures/start-up procedures
- environmental and heritage procedures
- equipment processes, technical capability and limitations
- equipment safety requirements
- geological and technical data
- hazardous goods procedures and consequences of spills
- isolation procedures
- mine operational system
- night and day working procedures
- relevant OHS procedures
- operational procedures and checks
- recovery techniques
- relevant road rules
- site procedures
- site safety requirements

## Evidence Guide

<p>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.</p>	
<p><b>Overview of assessment</b></p>	
<p><b>Critical aspects for assessment and evidence required to demonstrate competency in this unit</b></p>	<p>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:</p> <ul style="list-style-type: none"> <li>• knowledge of the requirements, procedures and instructions for recovery of equipment</li> <li>• implementation of requirements, procedures and techniques for the safe, effective and efficient recovery of equipment</li> <li>• working with others to undertake and complete the recovery of equipment that meets all of the required outcomes</li> <li>• consistent timely recovery of equipment that safely, effectively and efficiently meets the required outcomes</li> </ul>
<p><b>Context of and specific resources for assessment</b></p>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• Customisation of assessment and delivery environment should sensitively accommodate</li> </ul>

	<p>cultural diversity.</p> <ul style="list-style-type: none"> <li>• Aboriginal people and other people from a non English speaking background may have second language issues.</li> <li>• 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.</li> </ul>
<b>Method of assessment</b>	<p>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:</p> <ul style="list-style-type: none"> <li>• written and/or oral assessment of the candidate's required knowledge</li> <li>• observed, documented and/or first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> <li>• implementation of appropriate requirements, procedures and techniques for the safe, effective and efficient achievement of required outcomes</li> <li>• consistent achievement of required outcomes</li> </ul> </li> <li>• first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> <li>• working with others to undertake and complete the recovery of equipment</li> </ul> </li> </ul>
<b>Guidance information for assessment</b>	<p>Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.</p>

## Range Statement

<p>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.</p>	
<p><b>Relevant compliance documentation</b> may include:</p>	<ul style="list-style-type: none"> <li>• current relevant legislation codes, regulations and standards which may include:             <ul style="list-style-type: none"> <li>• relevant environmental agencies regulations</li> <li>• Environmental Protection Act</li> <li>• isolation procedures</li> <li>• relevant OHS legislation</li> <li>• safety and health management system</li> </ul> </li> <li>• organisational and site requirements and procedures</li> <li>• manufacturer's guidelines and specifications</li> <li>• relevant Australian standards</li> <li>• Employment and workplace relations legislation</li> <li>• Equal Employment Opportunity and Disability Discrimination legislation</li> </ul>
<p><b>Safety information and procedures</b> may be contained in:</p>	<ul style="list-style-type: none"> <li>• relevant legislation and regulations</li> <li>• relevant Australian standards</li> <li>• management plans</li> <li>• relevant OHS policy</li> <li>• relevant code of practice</li> <li>• manufacturer's instructions</li> <li>• safe working procedures (or equivalents)</li> </ul>
<p><b>Materials</b> may include:</p>	<ul style="list-style-type: none"> <li>• winches</li> <li>• block and tackle</li> <li>• chains</li> <li>• timber</li> <li>• bolters</li> <li>• chemicals such as:             <ul style="list-style-type: none"> <li>• PUR</li> <li>• strata binder</li> <li>• grout</li> </ul> </li> </ul>
<p><b>Potential hazards and risks</b> may</p>	<ul style="list-style-type: none"> <li>• unsafe ground</li> <li>• unstable faces</li> </ul>



include:	<ul style="list-style-type: none"> <li>• fences</li> <li>• adjoining pit walls</li> <li>• holes</li> <li>• pot holes</li> <li>• materials</li> <li>• over-hanging rocks</li> <li>• vehicles</li> <li>• abandoned equipment</li> <li>• equipment</li> <li>• personnel</li> <li>• chemicals</li> <li>• adverse weather conditions such as: <ul style="list-style-type: none"> <li>• electrical storms</li> <li>• floods</li> <li>• fires</li> </ul> </li> <li>• contaminants including: <ul style="list-style-type: none"> <li>• animal carcasses (sheep, cows, kangaroos)</li> <li>• cigarette butts</li> <li>• consumables</li> <li>• ear plugs</li> <li>• metal bucket teeth</li> <li>• metal or steel rods</li> <li>• old fencing</li> <li>• old piping</li> <li>• plastic</li> <li>• timber</li> </ul> </li> </ul>
<b>Environmental and heritage issues</b> may include:	<ul style="list-style-type: none"> <li>• culturally-sensitive sites and artefacts</li> <li>• drainage</li> <li>• dust</li> <li>• emissions</li> <li>• flora and fauna</li> <li>• hazardous chemicals</li> <li>• heritage legislation</li> <li>• noise</li> <li>• runoff</li> <li>• spills</li> <li>• water quality</li> </ul>
<b>Pre-start checks</b> may include:	<ul style="list-style-type: none"> <li>• air filter restriction indicator</li> <li>• cab including: <ul style="list-style-type: none"> <li>• horn</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• lights</li> <li>• air conditioner</li> <li>• display instrumentation and gauges including: <ul style="list-style-type: none"> <li>• indicators</li> <li>• gauges</li> <li>• laser levels</li> <li>• computer systems</li> <li>• orange and red engine and stop engine lights</li> </ul> </li> <li>• fluid levels including: <ul style="list-style-type: none"> <li>• windscreen washer tank</li> <li>• hydraulic oil</li> <li>• coolant</li> <li>• grease</li> <li>• water</li> <li>• engine oil</li> <li>• fuel</li> </ul> </li> <li>• visual and audio warning devices and lights</li> </ul>
<p><b>Recovery equipment</b> may include:</p>	<ul style="list-style-type: none"> <li>• machinery</li> <li>• mine extraction device</li> <li>• hydraulic mine puller</li> <li>• load haul dumps</li> <li>• shuttle car</li> <li>• breaker line support and mine dozer</li> <li>• ramcar</li> </ul>

## Unit Sector(s)

Underground Mining

## Competency field

Refer to Unit Sector(s).

## Co-requisite units

Not applicable.