



**Australian Government**

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

# **RIIUND207A Conduct underground lifting operations**

**Release: 1**

## RIIUND207A Conduct underground lifting operations

### Modification History

Not applicable.

### Unit Descriptor

This unit covers the conduct of underground lifting operations in the resources and infrastructure industries. It includes planning and preparing for underground lifting and moving loads. 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:

- Coal 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.
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## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan for underground lifting	1.1. Access, interpret and apply <b><i>compliance documentation</i></b> relevant to the work activity 1.2. Obtain, interpret and clarify/confirm work requirements in the form of <b><i>shift briefings</i></b> , handover details or work orders before proceeding 1.3. Develop a <b><i>preliminary underground lifting plan</i></b> or site sketch taking account of essential information 1.4. Check and confirm job feasibility and schedule with the client and other relevant persons 1.5. Confirm hazards associated with the use of cranes and other load moving equipment and identify and check measures to eliminate or control these hazards with appropriate parties 1.6. Finalise and confirm the underground lifting plan, including the scheduling of required resources
2. Prepare for underground lifting	2.1. Identify, select, inspect, assemble and certify <b><i>underground lifting equipment</i></b> , materials and tools required for the plan as serviceable 2.2. Label unserviceable equipment, materials and tools in accordance with Mine Managers Rules and Schemes 2.3. Select and prepare appropriate anchors in accordance with the Strata Control Plan
3. Move loads	3.1. Deduce and confirm appropriate safe working loads and centre of gravity using load charts and sling tags/charts prior to load moving 3.2. Direct the movement of the load using standard <b><i>signals for load moving</i></b> 3.3. Perform load moving in accordance with the plan and acceptable <b><i>safe work practices</i></b> 3.4. Perform work in an underground environment 3.5. Connect lifting gear to load 3.6. Connect load to <b><i>movement device</i></b> using

	<p>appropriate and certified equipment</p> <p>3.7. Ensure stability of the load by application of load movement procedure, temporary bracing and/or load support appropriate to the task</p> <p>3.8. Follow appropriate specifications during the placement and securing of the load</p> <p>3.9. Dismantle and remove/restore load shifting</p>
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## 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 underground lifting operations:

- apply legislative, organisation and site requirements and procedures for conducting underground lifting operations
- apply operational safety requirements
- access, interpret and apply technical information
- maintain equipment records
- apply diagnostic techniques
- use relevant hand tools
- ability to identify hazards

### 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 underground lifting operations:

- appropriate approved scheme of training
- site and equipment safety requirements
- equipment characteristics, technical capabilities and limitations
- operational and maintenance procedures
- hand signals
- potential hazards

## 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 conducting underground lifting operations</li> <li>• implementation of requirements, procedures and techniques for the safe, effective and efficient completion of conduct of underground lifting operations</li> <li>• working with others to undertake and complete the conduct of underground lifting operations that meet all of the required outcomes</li> <li>• consistent timely completion of underground lifting operations that safely, effectively and efficiently meet 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> </ul>

	<ul style="list-style-type: none"> <li>• Customisation of assessment and delivery environment should sensitively accommodate cultural diversity.</li> <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>
<p><b>Method of assessment</b></p>	<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 underground lifting operations</li> </ul> </li> </ul>
<p><b>Guidance information for assessment</b></p>	<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. <b>Bold italicised wording</b>, 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>• legislative, organisational and site requirements and procedures</li> <li>• manufacturer's guidelines and specifications</li> <li>• Australian standards</li> <li>• Employment and workplace relations legislation</li> <li>• Equal Employment Opportunity and Disability Discrimination legislation</li> </ul>
<p><b>Shift briefings</b> may include:</p>	<ul style="list-style-type: none"> <li>• site plans and drawings</li> <li>• work specifications</li> <li>• basic working plans and material schedules</li> <li>• the confirmed mass and dimensions of loads</li> <li>• capacities and availability of load shifting equipment</li> </ul>
<p><b>Preliminary underground lifting plan</b> may include:</p>	<ul style="list-style-type: none"> <li>• confirmed details of underground lifting requirement</li> <li>• confirmed dimensions</li> <li>• site access and egress</li> <li>• suitability and availability of materials</li> <li>• tools and equipment</li> <li>• identification of potential hazards</li> <li>• probable control measures</li> <li>• identification of site coordination requirements</li> </ul>
<p><b>Underground lifting equipment</b> may include:</p>	<ul style="list-style-type: none"> <li>• slings</li> <li>• ropes</li> <li>• shackles</li> <li>• eye-bolts</li> </ul>
<p><b>Signals for load moving</b> are to include:</p>	<ul style="list-style-type: none"> <li>• those that are communicated verbally and with hand signals, to Australian standards</li> </ul>
<p><b>Safe work practices</b> may include:</p>	<ul style="list-style-type: none"> <li>• legislation and regulations</li> <li>• relevant Australian standards</li> <li>• management plans</li> <li>• manager's rules</li> </ul>

	<ul style="list-style-type: none"><li>• OHS policy</li><li>• code of practice</li><li>• manufacturer's instructions</li><li>• safe working or job procedures</li></ul>
<b>Movement devices</b> may include:	<ul style="list-style-type: none"><li>• LHD jib attachments</li><li>• manual and mechanically operated chain blocks/lever pullers</li><li>• roof supports and winches</li></ul>

### **Unit Sector(s)**

Underground Mining

### **Competency field**

Refer to Unit Sector(s).

### **Co-requisite units**

Not applicable.