



Australian Government

Department of Education, Employment and Workplace Relations

RIINHB201B Load, secure and unload drilling equipment and materials

Release: 1

RIINHB201B Load, secure and unload drilling equipment and materials

Modification History

Not applicable.

Unit Descriptor

This unit covers the loading, securing and unloading of drilling equipment in the drilling industry. It includes: preparing for loading activities; loading, securing, protecting and unloading drilling equipment and materials; and conducting housekeeping activities.

Application of the Unit

This unit is appropriate for those working in drillers assistant and driller roles at worksites within:

- Drilling

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. Prepare for loading activities	1.1. Access, interpret and apply compliance documentation relevant to the work activity 1.2. Obtain, confirm and apply work instructions for the allocated task 1.3. Identify, manage and report all potential hazards 1.4. Resolve coordination requirements with others at the site prior to commencing and during work activities 1.5. Perform equipment pre-start checks to ensure equipment is ready for operation 1.6. Select personal protective equipment appropriate for work activities 1.7. Select appropriate type of auxiliary equipment for work activities 1.8. Identify, address and report environmental issues 1.9. Adhere to emergency procedures to ensure safety of personnel and plant
2. Load equipment and materials	2.1. Identify load characteristics and use appropriate loading techniques to safely and efficiently move load 2.2. Identify hazardous and dangerous goods and adhere to relevant legislation and permit requirements 2.3. Assess and ensure that load characteristics and transport capacity meet approved parameters 2.4. Erect physical barricades and signage to prevent unauthorised entry to the area 2.5. Load equipment and materials in accordance with site procedures
3. Secure equipment and materials	3.1. Check the distribution of the load to ensure it is even, legal and within safe working capacity 3.2. Secure load at approved anchorage points 3.3. Adjust load restraint devices to ensure load is secure during transport 3.4. Protect load from weather conditions using approved coverage devices

	3.5. Inspect the load for security to travel 3.6. Complete all required documentation
4. Conduct housekeeping activities	4.1. Clean loading and securing equipment to maintain condition of equipment and ensure safe and efficient operations 4.2. Clean and store auxiliary service equipment 4.3. Manage and report hazards to maintain a safe working environment
5. Unload equipment and materials	5.1. Assess location, stowage and remaining load before commencement 5.2. Unload in a safe and effective way making use of lifting aids and applications if required 5.3. Identify any equipment and materials requiring special handling 5.4. Relocate material in a manner that considers the heights, weight loading, size and crushability of the equipment and materials

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 load, secure and unload drilling equipment and materials:

- apply legislative, organisation and site requirements and procedures
- apply hazard identification procedures
- apply hazardous goods handling techniques
- apply defects reporting procedures
- apply safe work practices
- use hand and power tools
- read and comprehend simple statements in English
- identify containers and goods coding, ADG and IMDG markings and, where applicable, emergency information panels, and take appropriate action
- apply communication and recording skills
- apply manual and mechanical handling techniques
- apply basic maintenance skills
- apply knots, load securing devices and attachment points for loaded vehicles

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 load, secure and unload drilling equipment and materials:

- relevant Australian standards/regulations including state/territory mass & loading regulations
- Australian regulations and code of practice for the handling and transport of dangerous goods and hazardous substances
- contaminant identification and management
- emergency procedures
- environmental procedures
- equipment processes, technical capability and limitations
- equipment safety requirements
- hazardous goods procedures and consequences of spills
- identifying repair requirements
- isolation procedures
- site operational system
- operational procedures and checks

- night and day working procedures
- relevant OHS procedures
- signage erection procedures
- wet and dry working procedures
- load positioning requirements
- methods of preventing shifting of loads and their importance
- number and types of lashings to apply, fixing points and basic knots
- safe carrying of loads
- licences and permits requirements
- requirements for the use, transport and storage of LPG and LPG appliances

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 loading, securing and unloading of drilling equipment and materials • implementation of requirements, procedures and techniques for the safe, effective and efficient loading, securing and unloading of drilling equipment and materials • working with others to undertake and complete the loading, securing and unloading of drilling equipment and materials that meets all of the required outcomes • consistent timely loading, securing and unloading of drilling equipment and materials that safely, effectively and efficiently meets 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 to sensitively accommodate 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 requirement, 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 complete the loading, securing and unloading of drilling equipment and materials
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

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:	• legislative, organisational and site requirements and procedures relating to: • worksite safety and health • mine inspection • OHS • explosives • dangerous goods code • Hazchem • manufacturer's guidelines and specifications • Australian standards • code of practice • Employment and Workplace Relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Work instructions may come from:	• briefings, handovers, plans and work orders and may be written or verbal, formal or informal and may include: • nature and scope of tasks • achievement targets • operational conditions • obtaining of required permits • out of bounds areas • lighting conditions • plant or equipment defects • hazards and potential hazards • coordination requirements or issues • contamination control requirements • environmental control requirements • barricade and signage requirements
Hazards may include:	• terrain conditions • power lines • fences, gates

	• natural disasters (e.g. floods) • electricity use in caravan parks, caravans • LPG appliances/canisters • other transported gas cylinders • portable and fixed winches • road transport hazards, e.g. braking with loads, camber, hills, rough surfaces • serviceability of slings, tow ropes, shackles, snatch blocks lashings, vehicle restraining structures, decks, steps and jacks
Coordination requirements may include:	• other equipment operators • maintenance personnel • supervisors • worksite personnel
Pre-start checks may include:	• availability of equipment • detection of conditions that are unusual • fluid levels • job requirements • personnel • walk through site
Auxiliary equipment may be anything that is portable and mobile that is not part of the fixed infrastructure, and may include:	• materials handling equipment (e.g. turn tables, conveyors) • mobile equipment • mobile lifting equipment (e.g. cranes, forklifts)
Environmental issues may include:	• drainage • dust • emissions • flora and fauna • hazardous chemicals • noise • recycling • run-off • spills • waste management and disposal • water quality
Equipment and materials may include:	• drill string components • drill bits • drill rig spares • tools • drilling mud chemicals • cleaning materials and chemicals

	• greases and oils
Clean may include methods such as:	• forced air • hosing with water • suction • manual cleaning • application of cleaning fluids

Unit Sector(s)

Drilling (General)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.