Australian Government

RIINHB201X Load, secure and unload drilling equipment and materials

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Release: 1

RIINHB201X Load, secure and unload drilling equipment and materials

Modification History

Release	Comments
1	This unit of competency was first released in RII Resources and Infrastructure Industry Training Package Release 13.0.

Application

This unit describes the skills and knowledge required to load, secure and unload equipment and materials for drilling in accordance with relevant legislative and regulatory requirements. It prepares individuals to identify load specifications and apply the required procedures, techniques and legislative requirements for loading, securing and unloading equipment and materials.

It applies to those working in the assistant driller role. They generally work under supervision to undertake a prescribed range of functions involving known routines and procedures.

Licensing/Regulatory Information

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

Pre-requisite unit(s)

No pre-requisite units

Competency field(s)

N/A

Unit sector(s)

Drilling

Elements and Performance Criteria

Element	**Performance criteria**
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*

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1. Plan and prepare to load, secure and unload drilling equipment and materials	1.1 Obtain and confirm work instructions, load lists, transport information and workplace procedures 1.2 Identify, minimise and manage environmental hazards and risks within scope of own role and according to legislative and workplace requirements 1.3 Interpret and confirm emergency procedures in case of fire, accident and other emergencies 1.4 Select and wear personal protective equipment appropriate to loading, securing and unloading drilling equipment and materials 1.5 Identify load items and confirm supplied information on load requirements 1.6 Confirm loading and unloading sequence, communication methods and exclusion zones 1.7 Complete and document equipment pre-start checks, following workplace safety procedures
2. Assess and load equipment and materials	2.1 Identify and erect required safety systems to prevent unauthorised entry to work area 2.2 Identify load characteristics and use required loading techniques to move load 2.3 Assess load for hazardous and dangerous goods and apply appropriate handling, segregation and documentation requirements 2.4 Assess and confirm that load characteristics and transport capacity meet approved parameters and road transport requirements 2.5 Load equipment and materials according to safety requirements and workplace procedures
3. Secure equipment and materials	3.1 Check and confirm load distribution is even and complies with safe working capacity and legislative requirements 3.2 Secure load at approved anchorage points 3.3 Confirm load is secure for transport, adjusting load restraint devices as required 3.4 Protect load from weather conditions using approved coverage devices 3.5 Confirm the final load arrangement is secure and complies with transport requirements

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	3.6 Complete and submit all written documentation according to transport and workplace requirements
4. Assess and unload equipment and materials	4.1 Assess load, materials requiring special handling, location and stowage requirements before unloading 4.2 Unload equipment and materials according to safety requirements and workplace procedures, using safe manual handling techniques, lifting aids and applications as required 4.3 Relocate materials, considering heights, weight loading, size and crushability of equipment and materials
5. Conduct housekeeping activities	5.1 Clear work area and dispose or recycle materials according to workplace procedures and environmental requirements 5.2 Identify, manage and report hazards arising during housekeeping activities in accordance with workplace procedures 5.3 Clean equipment, confirm it is in safe operational condition, and report faults or issues in accordance with workplace procedures and within scope of own role 5.4 Process records according to task requirements and workplace procedures

Range of conditions

N/A

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Assessment Requirements for RIINHB201X Load, secure and unload drilling equipment and materials

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:

- load, secure and unload drilling equipment and materials on at least two occasions, where each occasion includes:
    - a load made up of items with differing characteristics, including items requiring special handling
    - a load distributed and secured within the safe working capacity of the vehicle and in line with road transport requirements
    - a load protected and confirmed as ready for transport
    - a work area established and controlled for the activity, then restored on completion
    - completed load, transport and workplace documentation

During the above, the candidate must:

- locate, interpret and apply relevant information, workplace procedures and legislative requirements
- maintain the safety of self and others, and manage hazards, risks and environmental impacts within scope of own role
- communicate and work with others to coordinate the loading and unloading sequence
- report hazards, faults and issues according to workplace procedures.

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 factors related to work activities, including:
    - vehicle and trailer loading specifications and limitations, including load capacity ratings and manufacturer requirements, including:
        - mass, dimension and load restraint regulations applicable to the vehicle and load type, including gross vehicle mass (GVM), gross combination mass (GCM) and axle group mass limits
    - load positioning principles, including weight distribution, centre of gravity and stability requirements including:
        - size and crushability of equipment and materials

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  - methods of preventing load shift during transport, such as chocking, blocking, dunnage and load restraint tensioning, and why each is important
  - number, type and rated capacity of lashings required for different loads, including lashing capacity (LC) ratings and how these relate to the safe working capacity of the load restraint system, approved fixing and anchorage points, and basic knots used in load restraint
  - types of approved weather protection devices
  - loading and unloading sequencing principles, including the effect of loading order on weight distribution, access and safe unloading
- classification, labelling, segregation and stowage requirements of dangerous goods and hazardous substances relevant to drilling operations
- legislative requirements for the transport, handling and storage of dangerous goods and hazardous substances
- key policies, procedures and established requirements for loading and unloading, securing and relocating drilling equipment and materials, including those for:
  - work health and safety (WHS) requirements relevant to loading, securing and unloading drilling equipment and materials, including:
    - hazard identification and control
    - personal protective equipment, including selection based on load characteristics, dangerous goods classification and manual handling exposure
    - safe manual handling techniques, including:
      - lifting aids and applications relevant to the load
    - tools and equipment required to load, secure and unload
    - safe interaction with site plant, equipment and vehicles
  - contaminant identification, classification and management procedures, including:
    - environmental management practices for controlling runoff, dust and contamination during loading and unloading activities
    - handling, segregation and spill response procedures for hazardous and dangerous goods, including use of spill kits and reporting requirements
  - emergency response procedures for fire, chemical spill, load collapse and other incidents that may occur during loading, securing, unloading and relocating activities, including:
    - reporting requirements
  - identifying, tagging and reporting equipment faults, including:
    - equipment isolation procedures, including lockout/tagout requirements applicable to loading and unloading equipment

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    - requirements for safety systems to prevent unauthorised entry to loading and unloading area, including:
        - erecting, positioning and removing signage and barricades to establish exclusion zones
        - site-specific traffic management, permit-to-work and exclusion zone systems
    - purpose and required content of pre-start checklists and documentation used during work briefings and handovers relating to loading and unloading activities
    - housekeeping procedures for clearing the work area, and disposing of or recycling materials in accordance with workplace and environmental requirements, including:
        - cleaning the equipment used during work activities
- hazards relevant to loading, securing and unloading drilling equipment and materials, including:
    - manual handling injuries
    - load shift
    - falling objects
    - vehicle instability
    - exposure to hazardous substances
- legislative, transport and workplace documentation requirements, including the purpose and content of load lists, manifests, consignment notes and other transport documents
- roles, responsibilities and communication objectives of drilling team members involved in loading, securing, transporting and unloading equipment and materials.

Assessment Conditions

The assessment must:

- include access to:
    - equipment required to load, secure and unload drilling equipment and materials
    - personal protective equipment
    - relevant documentation to complete for load transportation and workplace procedures
- be conducted in a safe environment
- be assessed in the context of this sector's work environment

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- 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
- 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.

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

Industry Experts

An industry expert engaged by an RTO to wholly or partially conduct assessment, independently or together with another assessor, or be involved in an assessment judgement, must also satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards.

Assessors and industry experts delivering training in the drilling industry must also have a minimum of two (2) years industry experience directly relevant to the training and assessment being provided.

Mandatory Workplace Requirements

Assessment of performance evidence may be in a workplace setting or an environment that accurately represents a real workplace.

Unit Mapping Information

Previous Code and Title	Equivalence	Comments
RIINHB201E Load, secure and unload drilling equipment and materials	Equivalent	Application Elements and Performance criteria Performance and Knowledge Evidence Assessment Conditions Assessor and industry expert requirements

Links

Companion volumes, including implementation guides, are found on the national training register - https://training.gov.au/training/details/RII.

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