Australian Government

RIINHB202 Set up and pack up drill sites

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Release: 1

RIINHB202 Set up and pack up drill sites

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 set up and pack up drill sites in the resources and infrastructure industries. It prepares individuals to assist in unloading and setting up the drill rig, setting up and dismantling ancillary equipment and packing up the drill site.

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

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Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Plan and prepare for work	1.1 Obtain and confirm work instructions, site layout, workplace procedures and complete relevant documentation during briefing or handover 1.2 Identify, minimise and manage hazards and risks, including environmental, 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 for setting up and packing up a drill site 1.5 Confirm required safety equipment is in working order and replace, rectify or report faults within scope of own role and according to workplace procedures 1.6 Identify and erect safety systems to prevent unauthorised entry to work area 1.7 Identify and confirm ground conditions, access and clearances required for rig establishment
2. Assist driller to set up drill rig	2.1 Carry out set up activities in the sequence directed by work instructions 2.2 Assist with unloading rig and equipment according to safety requirements, communication system and workplace procedures, using safe manual handling techniques, lifting aids and applications as required 2.3 Inspect and confirm no damage has occurred 2.4 Set out required tools and equipment 2.5 Place materials according to workplace procedures and safety requirements that minimise hazards and contamination 2.6 Take required weather precautions for equipment and stores
3. Prepare and dismantle ancillary equipment	3.1 Set up ancillary equipment according to operational requirements and safe work instructions 3.2 Connect services to and from equipment

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	3.3 Carry out prestart checks and shutdown procedures according to manufacturer requirements and workplace procedures 3.4 Dismantle ancillary equipment according to manufacturer requirements and workplace procedures
4. Pack up drill site	4.1 Clear drill site and dispose or recycle waste materials according to workplace procedures and environmental requirements 4.2 Load and secure equipment as directed and according to safety requirements 4.3 Identify, manage and report hazards arising during pack up and housekeeping activities in accordance with workplace procedures 4.4 Clean equipment, confirm it is in safe operational condition, and report faults in accordance with workplace procedures and within scope of own role 4.5 Complete records according to task requirements and workplace procedures

Range of conditions

N/A

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Assessment Requirements for RIINHB202 Set up and pack up drill sites

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements and performance criteria of this unit, including evidence of the ability to:

- set up and pack up drill sites on at least two occasions, including on each occasion:
    - confirming ground conditions, access and clearances required for rig establishment
    - erecting safety systems to prevent unauthorised entry to the work area
    - assisting the driller to unload and set up the drill rig in the sequence directed by work instructions and using the required communication system
    - placing materials and stores to minimise hazards and contamination, and taking required weather precautions
    - setting up, connecting services to and dismantling at least three items of ancillary equipment per occasion
    - carrying out prestart checks and shutdown procedures on ancillary equipment
    - clearing the drill site and disposing of or recycling waste materials
    - cleaning, loading and securing equipment

During the above, the candidate must:

- interpret and confirm emergency procedures
- select and wear appropriate personal protective equipment and confirm safety equipment is in working order
- identify, manage and report hazards and risks, including environmental hazards
- apply safe manual handling techniques, using lifting aids and applications as required
- inspect equipment and report faults within scope of own role
- complete documentation according to workplace procedures
- work with others to set up and pack up drill sites, including:
    - receiving and confirming work instructions during briefing or handover
    - assisting as directed throughout set up and pack up activities.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements and performance criteria of this unit, including knowledge of:

- function and purpose of the ancillary equipment relevant to the drilling method and site, and the requirements for connecting services to and from that equipment

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- cleaning and decontamination requirements for the rig and ancillary equipment, including the hazards and personal protective equipment associated with using high pressure cleaning equipment
- appropriate weather precautions for equipment and stores
- purpose and required content of pre-start checklists and documentation used during work briefings or handovers relating to setting up and packing up the drill site
- types of safety systems used to prevent unauthorised entry to a work area and the factors determining which is required
- inspection points and criteria for confirming drill rig components are undamaged and fit for use during set-up
- key policies, procedures and established requirements for unloading equipment and materials, setting up and packing up drill sites, including those for:
    - the sequence in which set up activities are carried out and how it is determined from work instructions
    - work health and safety (WHS) requirements relevant to the drill site, including:
        - hazard identification and control including reporting requirements
        - personal protective equipment relevant to setting up and packing up drill sites, including:
            - personal protective equipment specific to using high pressure cleaning equipment
        - safe manual handling, including:
            - lifting aids and applications relevant to ancillary equipment required
            - handling and placement of hazardous substances and drilling materials to minimise hazards and contamination, including the materials requiring specific handling or separation and the consequences of incorrect placement
        - safe interaction with site plant, equipment and vehicles
    - workplace requirements for checking, maintaining and reporting faults on safety equipment, including:
        - types and purpose of safety equipment relevant to the work activities
        - indicators of faulty or non-working safety equipment
    - emergency response procedures for fire, chemical spill, load collapse and other incidents that may occur during setting up and packing up the drill site
    - environmental management practices for setting up and packing up drill sites, including those for:
        - reducing dust, contamination and pollution
        - containing, dispersing and disposing of waste fluids

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        - clearing the site and disposing of or recycling waste materials
    - procedures for identifying, tagging and reporting equipment faults, including:
        - isolation procedures for ancillary equipment relevant to the drilling site, including lockout/tagout requirements
- ground surface factors affecting rig establishment, including load-bearing capacity, drainage, slope and stability alignment and levelling requirements for setting up the drill rig and mast, and the consequences of incorrect alignment
- operational requirements, shutdown procedures and correct sequence for dismantling ancillary equipment, including:
    - loading and securing dismantled equipment following disassembly
- records required to be completed on pack up of drill site and workplace procedures for completing them
- communication methods and systems used during unloading, vehicle positioning and mast raising, and the workplace requirements for their use
- roles, responsibilities and communication objectives of drilling team members involved in unloading equipment and materials, setting up and packing up the drill site.

Assessment Conditions

The assessment must:

- include access to:
    - ancillary equipment and materials required to set up and pack up drill sites
    - personal protective equipment relevant to setting up and packing up drill sites, including personal protective equipment specific to using high pressure cleaning equipment
    - workplace documentation, drill plans, site plans and procedures, manufacturer instructions and safety data sheets
- be conducted in a safe environment
- be assessed in the context of this sector's work environment
- 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.

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*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 sector 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.

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Unit Mapping Information

Previous Code and Title	Equivalence	Comments
RIINHB202E Set up and pack up drill sites	Equivalent	Updates to application, elements and performance criteria, performance and knowledge evidence, and assessment conditions

Links

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

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