



Australian Government

RIINHB203E Support drilling processes

Release: 1

RIINHB203E Support drilling processes

Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to support drilling processes in the resources and infrastructure industries. It prepares individuals to operate ancillary equipment, clean equipment at the drilling site, maintain supply levels, perform and report basic measurements and carry out basic operator maintenance.

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

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Users must check requirements with relevant body before applying the unit.

Unit Sector

Drilling

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare to support the drilling process	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply documentation required to support drilling processes and confirm work activity is compliant 1.3 Identify and minimise environmental issues and potential hazards, and assess and address risks within scope of own role and according to workplace procedures 1.4 Select and wear personal protective equipment required for work activities 1.5 Obtain and interpret emergency procedures and identify steps

ELEMENT	PERFORMANCE CRITERIA
	required in case of fire, accident and other emergencies 1.6 Communicate with other personnel on site as required and confirm briefings and handover details are communicated and received as required
2. Prepare, operate and dismantle ancillary equipment	2.1 Set up and ancillary equipment according to operational requirements 2.2 Carry out services connections to and from equipment 2.3 Carry out required prestart and start-up checks on ancillary equipment 2.4 Run and monitor ancillary equipment 2.5 Dismantle ancillary equipment according to operational requirements
3. Clean all equipment at drilling site	3.1 Maintain clean working conditions according to workplace procedures and safety requirements 3.2 Clean and store vehicles routinely after use according to operational and safety requirements 3.3 Clean machines and equipment to schedule according to safety requirements 3.4 Confirm all cleaning equipment is kept in good working condition
4. Maintain levels of supplies	4.1 Check and communicate current stock levels to driller 4.2 Check on availability of consumable items in the workplace 4.3 Complete written record and stocktake counts
5. Perform and report on basic measurement and calculations	5.1 Carry out simple calculations and measurements according to operational requirements 5.2 Record data on reports according to operational requirements and workplace procedures
6. Carry out basic operator maintenance	6.1 Identify hazards and methods of minimising hazards when conducting maintenance in the field 6.2 Carry out minor repairs and replacements as required 6.3 Maintain and service machines and equipment to schedule 6.4 Overcome minor breakdowns and bogging using recovery techniques as required 6.5 Carry out housekeeping to workplace requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Oral Communication	• Listens to short, explicit instructions for work procedures and asks questions to clarify and confirm
Self-management	• Monitors and minimises own exposure to worksite hazards during activities

Unit Mapping Information

Supersedes and is equivalent to RIINHB203D Support drilling process.

Links

Companion Volume implementation guides is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIINHB203E Support drilling processes

Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

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:

- undertake the following tasks to support drilling processes on at least two occasions:
 - setting up and dismantling ancillary equipment
 - carrying out services connections to and from equipment
 - operating and monitoring ancillary equipment
 - identifying and reporting stock levels.

During the above, the candidate must:

- locate and apply documentation required to support drilling processes
- implement requirements, procedures and techniques for the completion of supporting drilling process, including:
 - operating cleaning equipment
 - applying basic operator servicing and maintenance of plant and vehicles
 - applying communication procedures
 - using lifting equipment
- work with others to support drilling processes that meet required outcomes, including:
 - complying with reporting requirements and procedures
 - communicating with others to receive and clarify work instructions
 - communicating with others to meet coordination requirements prior to commencing and during work activities.

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 policies, procedures and established requirements for supporting drilling processes, including those for:
 - work health and safety
 - emergencies
 - relevant environmental practices
 - equipment operation and maintenance
 - cleaning and storing equipment and machines
 - effective work practices
 - refuelling vehicles and equipment
 - communicating with other personnel throughout work activities
 - housekeeping
- basic understanding of hydraulic and pneumatic systems
- procedures for carrying out simple calculations and measurements, including using a tape measure
- procedures for accessing, reading and interpreting graphical representation, including maps and diagrams
- drilling team roles and objectives
- basic geology.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - general drilling equipment and vehicles
 - basic measuring equipment
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- 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; and,
- 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.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 years
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no industry standard is specified should comply with any relevant regulation.	

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

**Assessors can demonstrate current work experience through employment within industry in a role relevant to the outcomes of the unit; or, for external assessors this can be demonstrated through exposure to industry by conducting a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

Links

Companion Volume implementation guides is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>