



Australian Government

RIINHB402E Supervise drilling operations

Release: 1

RIINHB402E Supervise drilling operations

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 supervise operations in drilling. It prepares individuals to initiate drilling operations, and to monitor, adjust, communicate and report on the execution of drilling operations.

It applies to those working in supervisory or technical specialist roles. They generally perform tasks involving a broad range of varied activities most of which are complex and non-routine.

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

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 for supervising drilling operations	1.1 Access, interpret and apply drilling operations documentation and confirm work activity is compliant 1.2 Access, interpret, clarify and confirm the application of the specific task information for the required outcomes 1.3 Prepare an operational plan, in consultation, which makes best use of available resources 1.4 Identify training requirements of team members and develop training plans
2. Initiate drilling operations	2.1 Acquire and make available the necessary resources 2.2 Issue instructions to team members and others involved 2.3 Implement training plans and confirm training plans are followed

ELEMENT	PERFORMANCE CRITERIA
3. Monitor, adjust, communicate and report on the execution of drilling operations	3.1 Monitor site operations according to work requirements 3.2 Initiate adjustments to drilling practices or the operations plan according to work requirements 3.3 Provide advice to team members to overcome operational problems encountered during the execution of operations 3.4 Confirm plant, equipment and tools maintenance requirements are carried out and recorded according to workplace procedures 3.5 Confirm reports are completed and submitted according to workplace procedures 3.6 Recommend changes to improve the safety, efficiency and effectiveness of operations

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
Reading	• Identifies and interprets complex information from workplace procedures, documentation, legislation and regulations

Unit Mapping Information

Supersedes and is equivalent to RIINHB402D Supervise mineral exploration drilling operations.

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 RIINHB402E Supervise drilling operations

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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:

- supervise drilling operations on at least two occasions, including:
 - developing an implementation action plan in consultation with team members
 - monitoring site operations
 - ensuring required resources are available
 - providing advice to team members to overcome problems encountered during operations
 - completing an improvement assessment report in consultation with team members
 - identifying training requirements of team members and implementing training plans
 - interpreting the following:
 - client requirements and procedures
 - manufacturer requirements and procedures
 - project plans and drawings.

During the above, the candidate must:

- locate and apply required legislation, documentation, policies and procedures
- implement the required procedures and techniques for achieving the required outcomes of drilling operations, including:
 - preparing and maintaining job reports, log books and diaries
 - conducting performance monitoring
 - conducting operational troubleshooting
 - providing recommendations for improving drilling operations
- work with others to supervise drilling operations, including:
 - communicating instructions to those involved
 - preparing for and conducting briefings, toolbox and site meetings
 - maintaining written records and the reports.

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 supervising drilling operations, including those for:
 - risk assessment and management
 - workplace health and safety
 - environmental management
 - workplace communication
 - work zone traffic management
 - monitoring methods
 - conducting job planning
 - plant, equipment and tools maintenance
 - materials deliveries
 - supervising workplace relationships
 - records and reports
- plant and equipment capabilities and application
- operational techniques
- identification of training needs
- potential operational problems
- resource requirements and procedures for operations
- relationship between various areas of resources and infrastructure industries.

Assessment Conditions

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

- include access to:
 - personal protective equipment
 - equipment required to supervise drilling operations
- 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 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.

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