



Australian Government

RIINHB216E Assist underground in-seam directional drilling

Release: 1

RIINHB216E Assist underground in-seam directional drilling

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 assist underground in-seam directional drilling in coal mining and drilling. It prepares individuals to support the underground in-seam directional drilling process by positioning, inspecting and carrying out basic maintenance on drilling equipment including drill rods, hoses and ancillary equipment.

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

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

Unit Sector

Coal mining

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 assist underground in-seam directional drilling	1.1 Obtain, read and confirm work requirements 1.2 Access, interpret and apply documentation required to assist underground in-seam directional drilling 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 Communicate with other personnel on site as required and

ELEMENT	PERFORMANCE CRITERIA
	confirm briefings and handover details are communicated and received 1.6 Obtain and interpret emergency procedures and identify steps in case of fire, accident and other emergencies 1.7 Load, unload and move tools and equipment according to safety requirements and workplace procedures
2. Support the underground in-seam directional drilling process	2.1 Position and number drill rods in readiness for drilling 2.2 Inspect in-hole drilling components for damage 2.3 Fit and remove in-hole drilling components to and from the drill string 2.4 Continually monitor hazards and risks, and confirm safety of self, other personnel, plant and equipment 2.5 Prepare for unplanned gas and water leakage
3. Carry out basic maintenance of tools and equipment	3.1 Monitor the drill rods for wear and damage and dress and grease threads 3.2 Rotate rods in stack as and when required 3.3 Perform inspections and routine checks on hoses and ancillary equipment and carry out remedial action 3.4 Confirm drill fluids are contained and disposed of as required 3.5 Complete housekeeping activities to workplace requirements 3.6 Process records according to workplace procedures

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

Unit Mapping Information

Supersedes and is equivalent to RIINHB216D Assist underground in-seam directional drilling.

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 RIINHB216E Assist underground in-seam directional drilling

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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:

- assist underground in-seam directional drilling on at least two occasions, including:
 - positioning and numbering drill rods in readiness for drilling
 - inspecting in-hole drilling components for damage
 - fitting and removing in-hole drilling components to and from the drill string
 - preparing for unplanned gas and water leakage
 - monitoring drill rods for wear and rotating in stack.

During the above, the candidate must:

- locate and apply documentation required for assisting underground in-seam directional drilling
- implement the requirements, procedures and techniques for assisting with underground in-seam directional drilling, including:
 - applying safe manual handling practices
 - operating ancillary equipment
 - working wearing personal protective equipment
 - inspecting and monitoring equipment
 - complying with basic vehicle cleaning procedures
 - carrying out operator maintenance
- work with others to assist underground in-seam directional drilling that meets 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 and procedures and established requirements for assisting underground in-seam directional drilling, including those for:
 - work, health and safety
 - emergencies
 - relevant environmental practices including disposal of drilling fluids
 - handling drilling equipment
 - inspecting and performing basic maintenance on tools and equipment
 - communicating with other personnel throughout work activities
 - refuelling vehicles, drill rigs and ancillary equipment
 - complying with safety data sheets (SDS)
 - housekeeping
- reading, interpreting and complying with safety data sheets (SDS)
- drilling team roles and objectives.

Assessment Conditions

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

- include access to:
 - personal protective equipment
 - equipment required to assist underground in-seam directional drilling
- 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.

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