



Australian Government

Assessment Requirements for RIINHB220

Assist coil tube drilling

Release: 1

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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:

- assist coiled tube drilling on at least two occasions, including:
 - using the following equipment:
 - coil tubing (diameter 1,200 – 2,200 metres)
 - storage reel
 - mud motor
 - dop drive
 - injector
 - level wind
 - in-coder
 - storage reel
 - spool coil
 - tubing snake connector
 - tubing dimple
 - saddles
 - lube tube
 - interpreting information from the weight indicator
 - measuring line string components and calculating hole depth
 - disassembling, describing the function of components, inspecting components, replacing unserviceable parts and reassembling a bottom hole assembly.

During the above, the candidate must:

- locate and apply documentation, policies and procedures required to assist coiled tube drilling
- implement the requirements, procedures and techniques for assisting coil tube drilling, including:
 - keeping work area clean

- selecting and wearing required protective clothing and equipment
- conducting pre-operational checks
- reporting immediately any malfunction or equipment failure
- work with others to undertake and complete conducting of coiled tubing that meets required outcomes, including:
 - organising work activities to meet all task requirements
 - communicating with others to receive and clarify work instructions
 - reporting regularly to and work as directed by the driller or derrickman.
 - communicating the hazards of cuttings in the return air stream to all crew members.

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 assisting coiled tube drilling, including those for:
 - work health and safety
 - emergencies
 - identifying hazards relevant to coiled tube drilling
 - environmental requirements
 - housekeeping
- the critical need to hoist storage reel over the centre of the carrier correctly
- the methods required to limit the contamination of samples/cuttings/returns
- correct bit selection for different types of drilling and different ground conditions
- identifying problems related to inaccurate measurement of bits and other related components
- the importance of monitoring the hole for returns/cutting/sample quantity
- the role that blockages play in affecting sample quality
- the critical need for restraining devices to be fitted to all pressure delivery hoses and sample delivery hoses (if used), the devices available and their methods of attachment
- the importance of checking gauges and monitoring pressures, flow rates and temperatures.

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 coil tube 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

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
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 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>