



Australian Government

Assessment Requirements for RIIINHB208E Assist diamond core 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 diamond core drilling on at least two occasions, including:
 - assembling core barrel components
 - preparing drill string in readiness for tripping and drilling
 - adding and removing drill rods and core inner tubes
 - dismantling inner tube for recovery of core samples
 - confirming required sequencing of core samples in core trays
 - applying required mixing procedure for drilling fluid.

During the above, the candidate must:

- locate and apply documentation required to assist diamond core drilling
- implement the requirements, procedures and techniques for assisting with diamond core drilling, including:
 - identifying and measuring core bits, reamer shells and related components
 - identifying thread types
 - identifying bits to suit thread types
 - storing diamond tools
 - using rod handling equipment and methods
 - adding and removing drill rods to the line string
 - complying with basic vehicle cleaning procedures
 - identifying and applying required lubricants
 - identifying and applying required handling of samples
 - conducting housekeeping
 - identifying and mixing drill fluids
 - conducting basic maintenance of mud and/or water delivery pumps

- applying required lifting techniques
- work with others to assist diamond core 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 diamond core drilling, including those for:
 - work health and safety
 - relevant environmental practices
 - placing information on core boxes/core marker blocks
 - identifying and taking care of samples including during storage and transport
 - communicating with other personnel throughout work activities
 - handling core samples
 - storing, mixing and performing basic tests on drilling fluids
 - refuelling vehicles and equipment
 - preparing and using equipment
 - complying with safety data sheets (SDS)
 - inspecting, performing basic maintenance on and storing equipment
 - housekeeping
- key factors affecting work activities described in performance evidence above, including:
 - mud pumps and their applications
 - fluid circulation system and its effect on hole integrity and sample quality
 - diamond coring equipment, components and system of names
- 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 diamond core 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 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.

Links

Companion Volume implementation guides is found on VETNet -

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