



Australian Government

RIINHB206D Assist large diameter auger drilling

Release: 3

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Modification History

Release	Comment
1	This unit replaces RIINHB206A Assist large diameter auger drilling
2	Corrected Performance Criteria numbering.
3	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to assist large diameter auger drilling in Civil construction and Drilling.

This unit is appropriate for those working in drillers assistant roles.

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

Unit Sector

Civil construction

Drilling

Elements and Performance Criteria

1. Plan and prepare for assisting with large diameter auger drilling	1.1 Access, interpret and apply assist large diameter auger drilling documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential risks, hazards and environmental issues and implement control measures 1.4 Select and wear personal protective equipment and protective appropriate for the work activity 1.5 Communicate and coordinate activities with others throughout the work activity 1.6 Load, unload, move, handle, use and store large diameter
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	auger equipment and all associated tools and connecting equipment 1.7 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Assist with augering process	2.1 Fit and remove bits and cutting teeth to and from the cutting head 2.2 Insert/remove augers and extension pipe to and from the drill string and assist with auger to auger connections 2.3 Regularly maintain cleanliness around the hole collar by removing spoil only when rotation is stopped 2.4 Observe housekeeping and site safety measures while conducting auger assistance
3. Mix drilling fluids	3.1 Check, read and interpret safety information/hazard codes 3.2 Apply correct mixing procedure for the drilling fluid 3.3 Carry out storage of drilling mud components and additives
4. Clean equipment	4.1 Use high pressure cleaners and/or steam cleaning equipment and clean augers and equipment 4.2 Avoid or confine the spread of contamination from auger and equipment cleaning processes 4.3 Follow safe work practices for use of cleaning equipment, chemicals and materials 4.4 Remove and dispose of or neutralise excess spoil from site operations in accordance with environmental regulations
5. Carry out basic maintenance of tools and equipment	5.1 Carry out shutdown and secure equipment 5.2 Perform inspection and checks on serviceability of augers including condition of flights, threads, socket connectors and D clips 5.3 Inspect serviceability of pressure cleaning equipment 5.4 Maintain all auger equipment in serviceable condition 5.5 Observe occupational health and safety procedures in carrying out equipment maintenance

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIINHB206A Assist large diameter auger drilling

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for RIINHB206D Assist large diameter auger drilling

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient assisting with large diameter auger drilling including:
 - applying basic maintenance and servicing of auxiliary equipment
 - identifying thread types in use on site
 - identifying bits in use and how to measure them
 - applying safe storage of tools
 - using load handling equipment on site
 - refuelling vehicles, drill rigs and ancillary equipment
 - conducting housekeeping
- works effectively with others to undertake and complete the large diameter auger drilling that meets all of the required outcomes including:
 - complying with written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to resolve coordination requirements prior to commencing and during work activities

- demonstrates completion of assisting large diameter auger drilling that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - fitting and removing bits and cutting teeth to and from the cutting head
 - inserting and removing augers and extension pipe to and from the drill string and assist with auger to auger connections
 - correctly mixing the drilling fluid
 - carrying out storage of drilling mud components and additives

Knowledge Evidence

The candidate must demonstrate knowledge of the following when assisting large diameter auger drilling:

- applying the organisation and site requirements and procedures for:
 - work health and safety
 - environment issues
 - grouting drill hole
 - acid base sample preservation of groundwater samples
 - field measurement of temperature, pH, specific conductance
 - safety measures for sampling contaminated sites and landfills
 - chain of custody, including use of seals, field log book, chain of custody record, sample labels and sample request forms
 - decontamination of sampling equipment, sample containers, pumps
 - volatile organic compound vials
 - test bore and well abandonment
 - basic soil description methods
- preparing for sampling of contaminated site
- identifying and applying sampling methods using SPTs, thin walled samplers, continuous sampling system method, hand augers, trowels
- identifying and applying groundwater sampling protocols and types of sampling tools
- identifying the reasons for identification and care of samples including storage and transport
- calculation of volume in cylinders, tanks

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit must be assessed in the context of this sector's work environment; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,

- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,
- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 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.	

*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 frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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