



Australian Government

RIINHB322E Construct multiple aquifer production bores

Release: 1

RIINHB322E Construct multiple aquifer production bores

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 construct multiple aquifer production bores. It includes designing, constructing and developing multiple aquifer bores, disinfecting bores and equipment and decommissioning bores.

It applies to those working in operational roles. They generally perform tasks involving a broad range of skilled applications in a wide variety of contexts, which may involve some discretion and judgement in selecting equipment, services and contingency measures.

Licensing, legislative and certification requirements that may apply to this unit can vary between states, territories, and industry sectors and must be sourced from relevant jurisdictions prior to applying this unit.

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 design for constructing multiple aquifer bores	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply multiple aquifer drilling documentation 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 Site a bore and design multiple aquifer bore according to work and legislative requirements 1.5 Select and wear personal protective equipment required for work activity

ELEMENT	PERFORMANCE CRITERIA
	1.6 Communicate with other personnel at site according to work requirements and confirm briefings and handover details are communicated and received
2. Construct and develop multiple aquifer bores in line with established requirements	2.1 Drill and isolate target production zone from other formations 2.2 Log strata encountered during drilling according to workplace procedures 2.3 Confirm or amend bore design based on testing and encountered geology 2.4 Construct bore according to confirmed or amended design using advanced construction techniques (multiple casing strings and pressure cementing) 2.5 Undertake bore development until a continuous, clean supply of water is obtained, in accordance with acceptable and practical limits set by site, contractual or regulatory requirements 2.6 Estimate yield by using yield testing methodologies 2.7 Complete written bore construction record according to workplace procedures
3. Disinfect/decontaminate bore and drilling equipment in line with established requirements	3.1 Determine and monitor potential contaminants of drilling equipment 3.2 Disinfect/decontaminate bores and installed equipment constructed for potable supplies
4. Decommission bore holes in line with established requirements	4.1 Determine suitable decommissioning procedures for failed or unwanted bores and select appropriate materials 4.2 Seal the bore as per legislative requirements

Foundation Skills

This section describes those language, literacy and numeracy and employment skills that are essential to performance.

SKILL	DESCRIPTION
Numeracy	Identifies and comprehends relevant mathematical information and formulae in relation to constructing multiple aquifer bores
Writing	Produces and completes workplace reports, including maintenance schedules using appropriate vocabulary, grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIINHB322D Construct multiple aquifer production bores.

Links

Companion Volume implementation guides is found on VETNet -

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