



Australian Government

RINHB501F Plan 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.

Application

This unit describes the skills and knowledge required to inspect a drilling site, select an appropriate drilling method, manage costs, quotes and permits, design and organise a drilling program and prepare a work health and safety (WHS) plan for site.

It applies to those working in management or consultancy roles. They generally perform tasks involving a high level of autonomy that require the application of significant judgement in planning and determining the selection of equipment, roles and techniques for themselves and others. They are required to demonstrate the application of a broad range of technical, managerial, coordination and planning skills.

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

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 prepare for planning drilling program	1.1 Define and confirm precise scope of work expected by client and other relevant parties 1.2 Access, interpret and apply drilling planning documentation and confirm work activity is compliant 1.3 Communicate with all parties and confirm that priorities and special requirements are understood and acted upon 1.4 Negotiate an achievable and acceptable contract with the client within the scope of the legal requirements and legal responsibilities of the driller

ELEMENT	PERFORMANCE CRITERIA
	1.5 Achieve and document agreement on the drilling plan by communicating and clarifying intended objectives and contract requirements with all relevant parties 1.6 Develop, in consultation, a time schedule for all operations
2. Inspect/research site for accessibility, services, hazards, legal and environmental problems	2.1 Establish size and nature of intended drill sites and designated routes to reach them 2.2 Assess topographical and geological features and identify preferred drilling sites 2.3 Locate and interpret specific relevant information from maps, diagrams or from other data 2.4 Identify legal and environmental limitations and hazards applying to site and take appropriate action 2.5 Identify and honour locations of socially or environmentally sensitive areas according to site agreement 2.6 Check availability and distance of water and/or other local supplies
3. Select appropriate drilling method	3.1 Read and evaluate available data relevant to ground conditions 3.2 Select optimum method of drilling and down hole tools, in consultation with other personnel, according to work requirements
4. Prepare cost estimates, quotes and tenders	4.1 Prepare data for quote, listing all necessary activities, materials and sub-contracting services needed 4.2 Allow a contingency sum for identifiable but uncertain factors 4.3 Use mathematical calculations and estimations to determine job costs 4.4 Document and present quote or tender
5. Arrange permits and licences	5.1 Determine and obtain the required permits and licences 5.2 Follow correct application procedures
6. Design and organise drilling program	6.1 Establish action plan that ensures completion of program to client satisfaction, within quality, time and cost parameters 6.2 Select appropriate and available crew and other resources for the job 6.3 Communicate scope of work, job requirements, working conditions and roles and responsibilities to crew involved in drilling program 6.4 Prepare fieldwork instructions detailing project location, access, water supply, aims of project and detailed instructions 6.5 Note variations to scope of work/contractual requirements on log according to workplace procedures 6.6 Establish size and nature of intended drill rig sites, and routes for reaching them 6.7 Specify any access track, clearing or bench construction sizes and compaction required to support rigs and equipment 6.8 Clarify availability of site amenities and back up support 6.9 Decide upon methods of controlling flow off site, disposing of wastes

ELEMENT	PERFORMANCE CRITERIA
	and restoring site after operations according to environmental requirements
7. Prepare WHS plan for site	7.1 Prepare plan to eliminate/mitigate hazards to designated level 7.2 Confirm signs, hazards and warnings are observed and consequences understood 7.3 Determine and acquire required safety equipment 7.4 Incorporate safety rules and regulations, legislation and specific site instructions 7.5 Obtain sign-off on commitment to WHS plan from crew

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
Reading	<ul style="list-style-type: none"> Identifies critical information from the organisational plan, work programs and lease details
Writing	<ul style="list-style-type: none"> Produces and completes workplace reports, including organisational procedures and using appropriate vocabulary, grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIINHB501E Plan drilling.

Links

Companion Volume implementation guides is found on VETNet -

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