



Australian Government

RIICTT301E Conduct fluid assisted directional boring

Release: 1

RIICTT301E Conduct fluid assisted directional boring

Modification History

This unit replaces RIICTT301D Conduct of fluid assisted directional boring. Minor endorseable amendments have been made to Elements, Performance Criteria, Foundation Skills, Performance Evidence and Knowledge Evidence to better reflect current industry practices and clarify training outcomes.

Application

This unit describes the skills and knowledge required to conduct fluid assisted directional boring in civil construction.

It applies to those working in operational roles in civil construction. They generally work under supervision and hold some responsibility for conducting fluid assisted directional boring.

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

Unit Sector

Civil construction

Elements and Performance Criteria

ELEMENT <i>Elements describe the essential outcomes.</i>	PERFORMANCE CRITERIA <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for fluid assisted directional boring	1.1 Obtain, interpret and confirm work requirements plans, specifications, quality requirements and operational details for task 1.2 Access, interpret and apply fluid assisted directional boring documentation and confirm work activity is compliant 1.3 Identify environmental issues and potential hazards, and assess and address risks within scope of own role and according to workplace procedures 1.4 Select and wear personal protective equipment required for work activities 1.5 Complete induction procedures as required by workplace policies and procedures and job role requirements 1.6 Identify, obtain and implement traffic signage requirements

ELEMENT	PERFORMANCE CRITERIA
	<p>1.7 Select tools and equipment required for tasks and check for faults and report or rectify within scope of own role</p> <p>1.8 Obtain and interpret emergency procedures and identify steps required in case of fire, accident, and other emergencies</p>
2. Determine boring requirements	<p>2.1 Determine location, alignment direction, level and grade of bore from drawings and specifications</p> <p>2.2 Determine bore pathway for underground vertical and horizontal alignment using above and below ground survey instruments</p> <p>2.3 Conduct visual geological investigation of alignment and determine differing soil types and groundwater conditions</p>
3. Check and prepare equipment	<p>3.1 Select bore head and drilling fluid for strata</p> <p>3.2 Position and stake down boring equipment</p> <p>3.3 Conduct preoperational start-up, shutdown and communication procedures</p> <p>3.4 Inspect equipment controls and functions and report faults</p> <p>3.5 Carry out equipment maintenance to schedule</p>
4. Drive bore hole	<p>4.1 Prepare launch and receiving pits for inserting and receiving bore head according to site requirements</p> <p>4.2 Extract and dispose of mud according to job specifications</p> <p>4.3 Monitor bore head progress for vertical and horizontal alignment and confirm machine operations meet site and task requirements</p> <p>4.4 Monitor drilling fluid and accommodate differing strata formation</p> <p>4.5 Remove bore head according to job requirements</p> <p>4.6 Check and fit back reaming attachment to drill string</p> <p>4.7 Conduct back reaming to specifications as required</p> <p>4.8 Position drums and rolls of installing product as required and confirm discharge of product</p>
5. Clean up	<p>5.1 Clear work area and dispose of and recycle materials as required</p> <p>5.2 Clean, check, perform maintenance on and store plant, tools and equipment and report issues as required or address within scope of own role</p> <p>5.3 Finalise and process written records according to workplace procedures</p>

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 and interprets information from at times complex workplace procedures, documentation, legislation and regulations
Writing	<ul style="list-style-type: none"> Records simple and routine information relating to work activities

Unit Mapping Information

Supersedes and is equivalent to RIICTT301D Conduct of fluid assisted directional boring.

Links

Companion Volume implementation guides are found in VETNet -

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