



**Australian Government**

# **RICTT301D Conduct of fluid assisted directional boring**

**Release: 2**

## RIICTT301D Conduct of fluid assisted directional boring

### Modification History

Release	Comment
1	This unit replaces RIICTT301A Conduct fluid assisted directional boring
2	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 conduct fluid assisted directional boring in Civil Construction.

This unit is appropriate for those working in operational roles.

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

### Unit Sector

Civil construction

### Elements and Performance Criteria

1. Plan and prepare for fluid assisted directional boring	<p>1.1 Access, interpret and apply fluid assisted directional boring documentation and ensure the work activity is compliant</p> <p>1.2 Obtain, read, interpret, clarify and confirm work requirements</p> <p>1.3 Identify and address potential risks, hazards and environmental issues and implement control measures</p> <p>1.4 Select and wear personal protective equipment appropriate for work activities</p> <p>1.5 Obtain, confirm and apply work instructions, plans, specifications, quality requirements and operational details to the allotted task</p> <p>1.6 Identify, obtain and implement traffic signage requirements</p> <p>1.7 Select and check for faults tools and equipment to carry out tasks</p>
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	1.8 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Determine boring requirements	<p>2.1 Determine location, alignment direction, level and grade of bore from drawings and specifications</p> <p>2.2 Use above and below ground survey instruments and determine the bore pathway for underground vertical and horizontal alignment</p> <p>2.3 Conduct visual geological investigation of alignment and determine the differing soil types and groundwater conditions</p> <p>2.4 Select bore head and drilling fluid for the strata</p> <p>2.5 Position, anchor/stake down boring equipment</p>
3. Conduct equipment checks	<p>3.1 Carry out start-up, shutdown and communication procedures</p> <p>3.2 Check equipment controls and functions, including implements or other attachments, anchors and/or stabilising equipment for serviceability and report faults</p> <p>3.3 Conduct inspection and fault finding</p> <p>3.4 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 in accordance with site requirements</p> <p>4.2 Extract and dispose of mud in accordance with job specifications</p> <p>4.3 Continually monitor bore head progress for vertical and horizontal alignment</p> <p>4.4 Monitor machine for continuity of production to site conditions</p> <p>4.5 Monitor drilling fluid to accommodate differing strata formation</p> <p>4.6 Remove bore head</p> <p>4.7 Check and fit back reaming attachment to drill string</p> <p>4.8 Conduct back reaming to dimensions/plans/specifications</p> <p>4.9 Position drums/rolls of installing product and ensure safe discharge of product</p>
5. Clean up	<p>5.1 Clear work area and dispose of or recycle materials</p> <p>5.2 Clean, check, maintain and store plant, tools and equipment</p>

## **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**

RIICTT301A 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>