



Australian Government

RIICTT303E Control micro tunnelling and pipe-jacking operations

Release: 1

RIICTT303E Control micro tunnelling and pipe-jacking operations

Modification History

This unit replaces RIICTT303D Control micro tunnelling and pipe-jacking. 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 develops the skills and knowledge required to control micro tunnelling and pipe-jacking in civil construction.

It applies to those working in operational roles. They generally work in teams, under supervision and hold some responsibility over controlling micro tunnelling and pipe-jacking operations.

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

Unit Sector

Civil construction

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. Prepare for micro tunnelling and pipe-jacking	1.1 Obtain, confirm and apply written and verbal work instructions 1.2 Access, interpret and apply documentation and procedures required for controlling micro tunnelling and pipe-jacking and confirm compliance to the work activity 1.3 Obtain, confirm and apply safety requirements from the site safety plan 1.4 Identify, obtain and implement signage requirements from the project traffic management plan 1.5 Identify and select plant, tools and equipment, check for serviceability and rectify and report any faults as required 1.6 Identify, confirm and apply environmental protection requirements from the project environmental management

ELEMENT	PERFORMANCE CRITERIA
	plan
2. Determine boring requirements	2.1 Determine location, alignment direction, level and grade of bore from drawings and specifications 2.2 Determine bore pathway for underground vertical and horizontal alignment using above and below ground survey instruments 2.3 Conduct visual geological investigation of alignment and determine differing soil types and groundwater conditions
3. Check and prepare equipment	3.1 Select bore head and drilling fluid for strata 3.2 Position and anchor down boring equipment 3.3 Carry out start-up, shutdown and communication procedures 3.4 Inspect equipment controls and functions and report faults as required 3.5 Carry out equipment maintenance tasks to schedule
4. Drive bore hole	4.1 Prepare launch and receiving pits to accommodate bore rig and tools 4.2 Identify and implement trench collapse prevention for launch and receiving pits 4.3 Establish thrust wall according to pipe size and soil characteristics 4.4 Determine traverse line of pilot hole to receiving pit 4.5 Confirm traverse line of pilot hole to receiving pit at specified distances 4.6 Collect and dispose of spoil according to environmental requirements 4.7 Select and attach augers to drilling machine 4.8 Jack through casings and pipes to receiving pit as required 4.9 Monitor equipment operations to site and task requirements
5. Clean up	5.1 Clear work area and dispose of, reuse and recycle materials as required 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 5.3 Finalise and process written records according to workplace procedures

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 RIICTT303D Control micro tunnelling and pipe-jacking.

Links

Companion Volume implementation guides are found in VETNet -

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