



Australian Government

RIICTC301E Install tunnelling constructions services

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 6.0.

Application

This unit describes the skills and knowledge required to install tunnelling constructions services in civil construction, including air and ventilation ducting, pipelines and road and rail access.

It applies to those working in operational roles. They generally work under minimal supervision to undertake a broad range of tasks in varied work contexts, using some discretion and judgement in selecting equipment, services or contingency measures.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Users must check requirements with relevant body before applying the unit.

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. Plan and prepare to install tunnelling construction services	1.1 Obtain, interpret, clarify and confirm work instructions 1.2 Access, interpret and apply documentation required to install and maintain tunnelling construction services and confirm work activity is compliant 1.3 Confirm and identify requirements for complying with environmental protection, safety and traffic management signage requirements 1.4 Select equipment and tools required for work activities and check for faults 1.5 Select and wear personal protective equipment according to site

ELEMENT	PERFORMANCE CRITERIA
	requirements 1.6 Identify and address potential risks, hazards and environmental issues, and implement control measures within scope of own role 1.7 Obtain and interpret emergency procedures and identify steps required to respond to emergencies
2. Install ducting for air and ventilation	2.1 Install pipeline for compressed air to design location and connect to compressor 2.2 Install pipeline for air supply to location and specifications 2.3 Install ventilation ducting to location and specifications
3. Install pipelines	3.1 Install pipelines for drainage and connect to pumping system according to job requirements 3.2 Install pipelines for water supply according to job requirements
4. Install road or rail access	4.1 Lay, spread and compact material to provide surface for vehicular access where required 4.2 Identify and confirm rail track construction from tunnel drawings and specifications 4.3 Lay and install rail track to specifications 4.4 Install warning and directional signage to designed locations
5. Maintain services	5.1 Maintain service ducting and pipelines to operational conditions 5.2 Maintain access facilities to safe working operational requirements 5.3 Inspect and maintain rail track according to job requirements
6. Conduct clean-up activities	6.1 Clear work area and dispose or recycle materials according to site requirements 6.2 Plant, tools and equipment are cleaned, checked, maintained and stored according to manufacturer specifications and site requirements 6.3 Carry out housekeeping activities according to site requirements

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
Numeracy	Calculates basic measurements including mass and dimensions
Self-management	Monitors and minimises own exposure to worksite risks and hazards during work activities

Skill	Description
Writing	Completes documentation using sector specific vocabulary, grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIICTC301D Install tunnelling constructions services.

Links

Companion Volume Implementation Guide is found on VETNet -

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