



Australian Government

RIICTC304E Muck out tunnel earthworks

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 muck out tunnel earthworks in civil construction, including scaling down loose equipment, removing spoil by hand and loading spoil by machine.

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 muck out tunnel earthworks	1.1 Obtain, interpret, clarify and confirm work instructions 1.2 Access, interpret and apply documentation required to muck out tunnel earthworks 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 and wear personal protective equipment according to site requirements 1.5 Obtain and interpret emergency procedures and identify steps required to respond to emergencies

ELEMENT	PERFORMANCE CRITERIA
	1.6 Select plant, tools and equipment required to carry out tasks and check for faults 1.7 Identify and address potential risks, hazards and environmental issues, and implement control measures within scope of own role
2. Bar/scale down loose material	2.1 Identify and position plant and equipment according to job requirements 2.2 Scale down loose material according to job requirements
3. Remove spoil by hand	3.1 Remove excavated muck according to job requirements 3.2 Transport muck to spoil heap
4. Load spoil by machine	4.1 Install spoil haulage lines, rail and conveyor system according to engineering and manufacturer specifications 4.2 Operate mucking machines according to site requirements 4.3 Inspect and maintain conveyors to schedule
5. Remove spoil	5.1 Operate hauling engine according to job requirements 5.2 Operate continuous conveyor system 5.3 Maintain dust controls throughout mucking process
6. Conduct housekeeping activities	6.1 Clear work area and dispose of or recycle materials according to site requirements 6.2 Clean, check, perform maintenance on and store plant, tools and equipment 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
Writing	Completes documentation using sector specific vocabulary, grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIICTC304D Muck out tunnel earthworks.

Links

Companion Volume Implementation Guide is found on VETNet -

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