RIICTC305E Construct portals

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 construct portals in civil construction. This includes excavating portal shape, supporting excavation, forming portal surrounds and installing ground support

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
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Plan and prepare to construct portals	1.1 Obtain, interpret, clarify and confirm work instructions
	1.2 Access, interpret and apply documentation required to construct portals 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 plant, tools and equipment required to carry out tasks and check for faults
	1.5 Select and wear personal protective equipment according to site requirements

ELEMENT	PERFORMANCE CRITERIA
	1.6 Obtain and interpret emergency procedures and identify steps required to respond to emergencies
	1.7 Identify preliminary ground work requirements to support portal surrounds prior to excavation
	1.8 Identify and address potential risks, hazards and environmental issues, and implement control measures within scope of own role
2. Excavate portal shape	2.1 Determine location, alignment and direction portals from details contained in job drawings and specifications
	2.2 Identify and apply method of construction for portal
	2.3 Prepare material for the construction process of the selected portals according to design plans and specifications
	2.4 Complete excavation to plan
	2.5 Control dust and noise suppression according to safety and legislative requirements
3. Support excavation and form portal surrounds	3.1 Install sheeting or first set to specifications
	3.2 Excavate and trim battering to design and drainage specifications
4. Install ground support	4.1 Identify ground support from project drawings and specifications
	4.2 Construct base to detail drawings and specifications
	4.3 Install ground support and shotcrete or concrete according to job requirements
	4.4 Place drainage and seepage provisions according to job requirements
5. Conduct housekeeping activities	5.1 Clear work area and dispose of or recycle materials according to site requirements
	5.2 Clean, check, perform maintenance on and store plant, tools and equipment according to manufacturer specifications and site requirements
	5.3 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 RIICTC305D Construct portals.

Links

Companion Volume Implementation Guide is found on VETNet -
https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272

PwC's Skills for Australia