



Australian Government

RIICFW301E Construct underpinning

Release: 1

RIICFW301E Construct underpinning

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 underpinning in civil construction. This includes identifying underpinning requirements, sequencing and performing excavation, backfilling and constructing underpinning using both drilling and excavation techniques.

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 construct underpinning	1.1 Obtain, interpret, clarify and confirm work instructions 1.2 Access, interpret and apply documentation required to construct underpinning and confirm work activity is compliant 1.3 Obtain and interpret emergency procedures, and identify steps required to respond to emergencies 1.4 Select and wear personal protective equipment according to site requirements 1.5 Confirm and identify requirements for complying with environmental protection, safety and traffic management signage

ELEMENT	PERFORMANCE CRITERIA
	<p>requirements</p> <p>1.6 Identify potential hazards and environmental issues, implement control measures within scope of own role and escalate where required</p> <p>1.7 Select plant, tools and equipment required to carry out tasks and check for faults</p> <p>1.8 Identify, confirm, and locate materials required for work application</p>
2. Set out and prepare sections	<p>2.1 Confirm and apply set out according to job requirements</p> <p>2.2 Identify and record underpinning requirements for adjoining properties and roadways</p> <p>2.3 Identify and implement sections and sequence of excavations according to job requirements</p> <p>2.4 Confirm condition of existing shoring system</p> <p>2.5 Set out sections for excavation according to job requirements</p> <p>2.6 Identify and protect areas for excavation and surrounding working space according to job requirements</p> <p>2.7 Erect barricades and signage according to job and site requirements</p> <p>2.8 Position plant and equipment for excavation according to job requirements</p>
3. Excavate and install support	<p>3.1 Excavate sections to footing depth according to job requirements</p> <p>3.2 Install trench and excavation support according to job requirements</p>
4. Conduct sectional underpinning	<p>4.1 Construct underpinning according to job requirements</p> <p>4.2 Backfill excavated sections according to job requirements</p> <p>4.3 Underpin alternate sections in sequence according to job requirements</p>
5. Conduct clean-up activities	<p>5.1 Clear work area and dispose of or recycle materials according to site requirements</p> <p>5.2 Clean, check, perform maintenance on and store plant, tools and equipment according to manufacturer specifications and site requirements</p>

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	<ul style="list-style-type: none">• Calculates basic measurements including mass and dimensions
Oral communication	<ul style="list-style-type: none">• Identifies and interprets information from verbal instructions• Conveys information and instructions to others verbally
Self-management	<ul style="list-style-type: none">• Monitors and minimises own exposure to worksite risks and hazards during work activities
Writing	<ul style="list-style-type: none">• Communicates and documents information in written form

Unit Mapping Information

Supersedes and is equivalent to RIICFW301D Construct underpinning.

Links

Companion Volume Implementation Guide is found on VETNet -

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