



Australian Government

RIICCM209E Carry out concrete work

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 carry out concrete work in civil construction, including constructing and fitting reinforcement, erecting formwork, concreting and stripping formwork.

It applies to those working in operational roles. They generally work under supervision to undertake a prescribed range of functions involving known routines and procedures and take some responsibility for the quality of work outcomes.

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 for concrete work	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply documentation required to carry out concrete work 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 requirements 1.6 Identify, address and report environmental issues, potential hazards

ELEMENT	PERFORMANCE CRITERIA
	<p>and risks</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. Confirm task requirements and select resources	<p>2.1 Determine location requirements of steel reinforcement and formwork</p> <p>2.2 Confirm reinforcement requirements</p> <p>2.3 Select formwork components and materials according to job and site requirements</p> <p>2.4 Select and use fixing or fasteners according to manufacturer specifications</p>
3. Set out for concrete work	<p>3.1 Set string lines from existing pegs</p> <p>3.2 Check grades and confirm correct fall</p> <p>3.3 Identify services, protect and prevent damage</p>
4. Construct and fit reinforcement	<p>4.1 Cut and bend reinforcing fabric and bars according to job requirements</p> <p>4.2 Tie and fix fabric and bars to configuration</p> <p>4.3 Attach stiffening rods to panels as required to facilitate handling</p> <p>4.4 Locate reinforcement material in formwork, and place it on bar chairs/spacers, and confirm clearance from formwork</p> <p>4.5 Locate and secure cast-ins</p>
5. Erect formwork	<p>5.1 Clear work area and prepare surface for erection of formwork</p> <p>5.2 Set out formwork according to job requirements</p> <p>5.3 Assemble and brace formwork</p> <p>5.4 Position expansion joints to specification and to relevant Australian standard</p> <p>5.5 Position dowel joints</p> <p>5.6 Remove debris, sawdust and other waste material from formwork</p> <p>5.7 Apply release agent to manufacturer specifications</p>
6. Carry out concrete work	<p>6.1 Place concrete to specified levels and grades and avoid segregation</p> <p>6.2 Compact concrete using immersion vibrator or other specified method</p> <p>6.3 Screed, finish and apply curing process to concrete</p> <p>6.4 Cover and protect concrete surface</p>
7. Strip formwork	<p>7.1 Remove edge boxing and braces sequentially</p> <p>7.2 Denail, clean and store timber components according to site requirements</p> <p>7.3 Clean, oil and store steel components according to site requirements</p>

ELEMENT	PERFORMANCE CRITERIA
	7.4 Discard damaged formwork components after stripping
8. Conduct housekeeping activities	8.1 Clear work area and dispose of or recycle materials according to site requirements 8.2 Clean and maintain condition of equipment, confirm suitability for use, and address and report issues as required within scope of own role 8.3 Manage and report hazards, and maintain a safe working environment 8.4 Process records 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	<ul style="list-style-type: none"> Calculates basic measurements including mass and dimensions
Self-management	<ul style="list-style-type: none"> Monitors and minimises own exposure to worksite risks and hazards during work activities

Unit Mapping Information

Supersedes and is equivalent to RIICCM209D Carry out concrete work.

Links

Companion Volume Implementation Guide is found on VETNet -

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