



Australian Government

RIICWD533D Prepare detailed design of civil concrete structures

Release: 3

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Modification History

Release	Comment
1	This unit replaces RIICWD533A Prepare detailed design of civil concrete structures.
2	Performance Criteria numbering corrected.
3	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to prepare detailed design of civil concrete structures in Civil construction.

This unit is appropriate for those working in management or technical specialist roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

- Civil construction
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Elements and Performance Criteria

1. Plan and prepare for the detailed design of civil concrete structures	<p>1.1 Access, interpret and apply design of civil concrete structures documentation and ensure the work activity is compliant</p> <p>1.2 Obtain, read, interpret, clarify and confirm work requirements</p> <p>1.3 Identify and confirm the civil concrete structures project requirements and information Prepare a design plan which makes best use of the available resources</p>
2. Undertake the detailed design of civil concrete structures	<p>2.1 Interpret and analyse data and identify viable options</p> <p>2.2 Interpret and analyse data and recommend the preferred option</p> <p>2.3 Complete the detailed design</p>

	<p>2.4 Prepare a cost estimate for execution of the design</p> <p>2.5 Participate in the review of design with peers and stakeholders</p> <p>2.6 Complete required documentation</p> <p>2.7 Monitor and coordinate the progress of other team members involved in the design process</p> <p>2.8 Gain design approval</p>
3. Finalise design processes of civil concrete structures	<p>3.1 Ensure filing of design records is completed</p> <p>3.2 Complete and submit design cost and other reporting</p> <p>3.3 Participate in performance review of the design process</p> <p>3.4 Seek client feedback and contribute to the verification of the design</p> <p>3.5 Close out all systems</p>
4. Support and review the application of the design of civil concrete structures	<p>4.1 Provide clarification and advice to those applying the design</p> <p>4.2 Review the application of the design and recommend changes for continuous improvement</p> <p>4.3 Contribute to the validation of the design</p>

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIICWD533A Prepare detailed design of civil concrete structures

Links

Companion Volume implementation guides are found in VETNet -

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