



**Australian Government**

# **RIICWD509E Prepare detailed design of urban roads**

**Release: 1**

## RIICWD509E Prepare detailed design of urban roads

### Modification History

Not applicable.

### Application

This unit describes a participant's skills and knowledge required to prepare detailed designs of urban roads in Civil construction.

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

No licensing, legislation or certification requirements apply to this unit at the time of publication.

### Unit Sector

Civil construction

### Elements and Performance Criteria

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Plan and prepare for the detailed design of urban roads | 1.1 Access, interpret and apply urban road design documentation and ensure the work activity is compliant<br>1.2 Obtain, read, interpret, clarify and confirm work requirements<br>1.3 Identify and confirm the urban roads project requirements and information<br>1.4 Prepare a design plan which makes best use of the available resources and meets the design requirements                                                                                                                                                              |
| 2. Undertake the detailed design of urban roads            | 2.1 Interpret and analyse data and identify viable options<br>2.2 Interpret and analyse data and recommend the preferred option<br>2.3 Complete the detailed design of the urban roads<br>2.4 Prepare a cost estimate for executing the designed urban roads<br>2.5 Participate in the review of the urban roads design with peers and stakeholders<br>2.6 Complete the documentation for the urban roads design<br>2.7 Monitor and coordinate the progress of other team members involved in the design process<br>2.8 Gain design approval |
| 3. Finalise design processes of urban                      | 3.1 Ensure filing of design records is completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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| roads                                                              | 3.2 Complete and submit design cost and other reporting<br>3.3 Participate in performance review of the design process<br>3.4 Seek client feedback and contribute to the verification of the design<br>3.5 Close out all systems |
| 4. Support and review the application of the design of urban roads | 4.1 Provide clarification and advice to those applying the design<br>4.2 Review the application of the design and recommend changes for continuous improvement<br>4.3 Contribute to the validation of the design                 |

## 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

RIICWD509A Prepare detailed design of urban roads

## Links

Companion Volume Implementation Guide is found on VETNet -

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