



Australian Government

RIICWM503E Prepare civil works cost estimates

Release: 1

RIICWM503E Prepare civil works cost estimates

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 prepare civil works cost estimates in civil construction. It includes confirming bills of quantities and schedules of rates, and developing, gaining agreement on and supporting project cost estimates.

It applies to those working in managerial or technical specialist roles. They generally apply a broad range of technical and managerial skills and are responsible for the delivery of outputs that meet site requirements.

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 to prepare civil works cost estimates	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply documentation required to prepare civil works cost estimates and confirm work activity is compliant 1.3 Identify and address potential risks, hazards and environmental issues and implement control measures 1.4 Review and confirm draft works program that details tasks to be undertaken 1.5 Confirm agreement on draft works program
2. Confirm bills of quantities	2.1 Review and confirm on-site labour bill of quantities 2.2 Review and confirm materials bill of quantities

ELEMENT	PERFORMANCE CRITERIA
	2.3 Review and confirm sub-contractor services bill of quantities
3. Confirm the schedules of rates	3.1 Review and confirm on-site labour schedule of rates 3.2 Review and confirm sub-contractor schedule of rates
4. Develop and gain agreement on estimated cost of civil works project	4.1 Apply confirmed schedules of rates to the respective confirmed bill of quantities and estimate civil works project cost 4.2 Gain approval of civil works cost estimate 4.3 Complete and submit documentation of civil works cost estimate
5. Support and review the application of the cost estimate	5.1 Provide clarification and advice to those applying cost estimate 5.2 Review application of cost estimate and recommend improvements to civil works cost estimate preparation processes

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	Applies basic mathematics to calculate bill of quantities and schedule of rates from site requirements and documentation
Oral communication	Conveys information and requirements clearly and listens actively

Unit Mapping Information

Supersedes and is equivalent to RIICWM503D Prepare civil works cost estimate.

Links

Companion Volume Implementation Guide is found on VETNet -

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