



Australian Government

**Assessment Requirements for
RIICWD536D Prepare detailed design of
civil masonry, crib and gabion structures**

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIICWD536A Prepare detailed design of civil masonry, crib and gabion structures
2	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.

Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant legislation, documentation, policies and procedures
- implements the requirements procedures and techniques for the safe, effective and efficient detailed design of civil masonry, crib and gabion structures including:
 - accessing and interpreting plans, drawings, specifications and design briefs
 - accessing and interpreting engineering survey and geotechnical information
 - accessing and interpreting hydrological, meteorological, cultural and heritage data
- works effectively with others to undertake and complete the detailed design and documentation of civil masonry, crib and gabion structures that meets all of the required outcomes including:
 - using a range of communication techniques and equipment to convey information to others
 - maintaining written and verbal reporting requirements
 - organising work activities to meet all task requirements
 - communicating clearly and concisely with others to receive and clarify work instructions
- demonstrates completion of detailed designs of civil masonry, crib and gabion structures that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - interpret masonry, crib and gabion structures construction materials test results
 - carry out risk assessments

- interpret civil masonry, crib and gabion structures options selection data
- calculate areas, volumes, loads, pressures, mass and grades
- size civil masonry, crib and gabion structures components
- select appropriate construction techniques
- develop and apply design plans
- undertaking of the detailed design
 - analyse relevant data and recommend the preferred option
 - complete the detailed design
- finalisation of the detailed design processes
 - complete and submit design cost
- supporting the application of the detailed design.
 - review the application of the design and recommend improvements

Knowledge Evidence

The candidate must demonstrate knowledge of the detailed design of civil masonry, crib and gabion structures through:

- applying legislative, organisation and site requirements and procedures for:
 - risk assessment and management
 - statutory compliance
 - work health and safety
 - applying equipment safety requirements
 - complying with emergency issues
 - complying environmental issues
 - complying with WHS
 - quality management
 - verbal and written communication
 - Australian and other relevant standards
 - Industry and organisational design procedures and practice
 - current Industry best practice
 - civil masonry, crib and gabion structures geometric requirements
 - potential hazards, constraints and conditions
 - design review
 - design approval
 - documentation and reporting
 - record keeping
 - performance review
- systems close out
- identifying, selecting and applying civil masonry, crib and gabion structures options
- selecting and applying civil masonry, crib and gabion structures surfacing requirements

- selecting and applying techniques for choosing preferred options
- applying team leadership techniques
- selecting and applying operational techniques required for the executing civil masonry, crib and gabion structures construction tasks
- selecting and applying civil masonry, crib and gabion structures construction plant and equipment capabilities
- selecting and applying cost estimation techniques

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit is best assessed in the context of this sector's work environment; and,
- outcomes of this unit that occur in an office-based setting may be assessed in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,
- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years

Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 Years
Other sectors	Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation.	

*Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

Links

Companion Volume implementation guides are found in VETNet -

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