



Australian Government

Assessment Requirements for RIICWD522D Prepare stabilised material mix design

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIICWD522A Prepare stabilised material mix design
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 applicable legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of the design of stabilised materials mix including:
 - accessing and interpreting plans and drawings
 - accessing and interpreting and applying specifications
 - reading and interpreting design briefs
 - accessing and interpreting Australian and other appropriate standards
 - accessing and interpreting engineering survey information
 - accessing and interpreting hydrological data
 - accessing and interpreting geotechnical information
 - accessing and interpreting stabilised materials construction materials test results
 - accessing and interpreting meteorological data
 - accessing and interpreting cultural and heritage data
 - carrying out risk assessments
 - accessing and interpreting stabilised materials mix design selection data
- works effectively with others to undertake and complete the stabilised material mix design 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 stabilised material mix designs that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - undertake the stabilised materials mix design including:
 - analysing the relevant data and identify the available viable options
 - preparing cost estimate
 - finalise stabilised materials mix design including:
 - completing and submitting design cost and other reporting
 - Provide clarification and advice to those applying the design
 - support the application of the design.
 - review application of design and recommending changes
 - determine stabilised materials mix design loadings requirements
 - select stabilised materials mix design options
 - size stabilised materials mix design components
 - choose appropriate construction techniques
 - develop and apply design plans

Knowledge Evidence

The candidate must demonstrate knowledge of the Prepare stabilised material mix design through:

- applying legislative, organisation and site requirements and procedures for:
 - risk assessment and management
 - statutory compliance
 - work health and safety
 - emergency response issues
 - environmental issues
 - cultural and heritage requirements
 - quality management
 - verbal and written communication
 - Australian and other relevant standards
 - Industry and organisational design
 - current Industry best practice
 - cost estimation techniques
 - designing review principles and procedures
 - documentation and reporting
 - designing approval requirements and procedures
- stabilised materials binder characteristics

- stabilised materials mix design options
- stabilised materials mix design geometric requirements
- stabilised materials mix design surfacing requirements
- techniques for choosing preferred options
- team leadership techniques
- operational techniques required for the execution of stabilised materials
- reporting requirements and procedures
- systems close out requirements and procedures

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>