



Australian Government

RIICBM301D Maintain concrete bridges

Release: 2

RIICBM301D Maintain concrete bridges

Modification History

Release	Comments
1	This unit replaces RIICBM301A Maintain concrete bridges.
2	Editorial corrections. 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 apply maintain concrete bridges in Civil Construction.

This unit is appropriate for those working in operational 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

Elements and Performance Criteria

1. Plan and prepare to maintain concrete bridges	1.1 Access, interpret and apply documentation to maintain concrete bridges and ensure the work activity is compliant 1.2 Obtain, interpret, clarify and confirm work instructions before commencing 1.3 Confirm and apply environmental protection and safety requirements 1.4 Obtain, interpret and implement traffic management signage requirements 1.5 Select and check for faults plant, tools and equipment to carry
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	out tasks 1.6 Identify, address and report environmental issues, potential hazards and risks 1.7 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Maintain bridge	2.1 Follow work order/schedule of repairs and maintenance 2.2 Inspect bridge structure to confirm nature and extent of fault 2.3 Report significant deterioration of existing faults or new faults 2.4 Carry out repairs and maintenance of bridge structure 2.5 Report completed repairs and maintenance, noting and documenting any new faults

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

RIICBM301A Maintain concrete bridges

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for RIICBM301D Maintain concrete bridges

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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 for maintaining concrete bridges
- works effectively with others to undertake and complete the maintenance of concrete bridges 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 and procedures
 - communicating clearly and concisely with others to receive and clarify work instructions
 - implementing traffic management signage
- demonstrates completion of maintaining concrete bridges that safely, effectively and efficiently meets all of the required outcomes including:
 - completing a minimum of four (4) different maintenance and repair activities on three (3) separate bridges, including at least one (1) deck joint repair, to specifications
 - identifying and reporting deterioration of existing faults and new faults

Knowledge Evidence

The candidate must demonstrate knowledge of maintaining concrete bridges through:

- applying legislative, organisation and site requirements for:
 - risk assessment and management
 - site and equipment safety requirements
 - safety procedures for working at heights and over water
 - site isolation and traffic control responsibilities and authorities
 - project quality requirements
- civil construction terminology
- bridge components
- bridge faults and repair methods
- interpreting engineering drawings
- equipment types, characteristics, technical capabilities and limitations
- safety data sheets and materials handling methods
- JSA/JSEA/safe work method statements

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 must be assessed in the context of this sector's work environment; 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

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