



Australian Government

RIICBM306D Undertake concreting work on concrete bridges

Release: 2

RIICBM306D Undertake concreting work on concrete bridges

Modification History

Release	Comment
1	This unit replaces RIICBM306A Undertake concreting work on concrete bridges.
2	Knowledge Evidence formatting corrected. 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 Undertake concreting work on 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	1.1 Access, interpret and apply documentation to undertake concreting work on concrete bridges and ensure the work activity is compliant 1.2 Obtain, interpret, clarify and confirm work instructions before proceeding 1.3 Confirm and apply environmental protection and safety requirements 1.4 Obtain, interpret and implement traffic management signage
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	requirements 1.5 Select and check for faults plant, tools and equipment to carry out tasks 1.6 Identify, address and report hazards, risks and environmental issues 1.7 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Place concrete	2.1 Identify and confirm location and design of concrete work 2.2 Remove debris and waste from pour area 2.3 Apply release agent 2.4 Pour concrete in horizontal layers into location to levels as indicated by markers, level pegs or lines 2.5 Implement methods to avoid segregation 2.6 Consolidate poured concrete during process using approved compaction or vibration methods
3. Finish concrete	3.1 Screed concrete to correct levels and/or grades using appropriate straight edged tool or formwork mounted screeds 3.2 Float screeded concrete surface 3.3 Define control/structural joints and finish edges 3.4 Finish concrete surface
4. Cure concrete	4.1 Maintain curing agent/method on concrete surface 4.2 Isolate and/or barricade the area to protect concrete during curing process
5. Clean up	5.1 Clear work area and dispose of or recycle materials 5.2 Clean, check, maintain and store plant, tools and equipment

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

RIICBM306A Undertake concreting work on 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 RIICBM306D Undertake concreting work on 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
- works effectively with others to undertake and complete concreting work on concrete bridges that meets all of the required outcomes including:
 - communicating clearly and concisely with others to receive and clarify work instructions
 - using a range of communication techniques and systems such as signage to advise others of work activity and exclusion zones
- demonstrates completion of undertaking concreting work on concrete bridges that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - pouring and consolidating poured concrete using approved compaction or vibration methods
 - completing concrete placing, finishing and curing to the finished form, on a concrete multi-span bridge with a minimum length of twenty metres (20) for each:
 - casting in situ decks
 - concrete footings/pile caps/abutments
 - piers and headstocks

Knowledge Evidence

The candidate must demonstrate knowledge of the following in applying the undertake concreting work on concrete bridges through:

- applying legislative, organisational and site requirements and procedures for:
 - risk assessment and management
 - site and equipment safety requirements
 - bridge construction and sequencing
 - steel reinforcement characteristics
 - concrete characteristics and properties
 - concreting principles
 - structural technology
 - working in confined spaces
 - working at heights and over water
 - project quality requirements
- civil construction terminology
- interpreting engineering drawings
- equipment types, characteristics, technical capabilities and limitations
- operational, maintenance and basic diagnostic procedures
- site isolation and traffic control responsibilities and authorities
- 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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