



Australian Government

RIICBM303D Install pre-cast parapets

Release: 2

RIICBM303D Install pre-cast parapets

Modification History

Release	Comment
1	This unit replaces RIICBM303A Install pre-cast parapets.
2	Corrected Knowledge Evidence formatting. 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 install pre-cast parapets 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 install pre-cast parapets 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 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. Confirm installation details	2.1 Measure stirrup spacing and compare with spacing of cast in ligatures and brackets to eliminate difficulties when positioning units 2.2 Determine individual pre-cast parapet unit location 2.3 Determine sequence of parapet installation and carry out 2.4 Check parapets for conformity to design prior to lifting 2.5 Check lifting points on pre-cast units for serviceability
3. Install pre-cast parapet units	3.1 Raise pre-cast parapet end unit to allow fitting of bracket 3.2 Manoeuvre pre-cast parapet unit into the vertical position 3.3 Guide pre-cast parapet unit into approximate position and attach locating bolts to cast in brackets 3.4 Correctly establish vertical and horizontal alignment of pre-cast parapet end units and tighten bolts 3.5 Install intermediate pre-cast parapet units in approximate positions 3.6 Check pre-cast end units for correct height and alignment 3.7 Adjust intermediate pre-cast parapet units to design alignment and tighten locating bolts 3.8 Install anchor cable and fix ends
4. Finish parapet	4.1 Install services and fittings as required 4.2 Fit joints with foam inserts and groat 4.3 Form up and prepare cast in-situ infills of the pre-cast units 4.4 Place concrete and finish 4.5 Dismantle formwork and remove from site
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

RIICBM303A Install pre-cast parapets

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 RIICBM303D Install pre-cast parapets

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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 the installation of pre-cast parapets 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 installing pre-cast parapets that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - determining the location and sequence of individual pre-cast parapet unit and installation
 - checking lifting points and conformity to design prior to lifting
 - positioning, fixing and finishing the pre-cast parapet units including the installation of end units, services and fittings for a multi-span bridge with a minimum length of twenty (20) metres to specifications
 - manoeuvring, positioning and adjusting parapets

Knowledge Evidence

The candidate must demonstrate knowledge of the following in applying the install pre-cast parapets through:

- applying legislative, organisation and site requirements for:
 - risk assessment and management
 - site and equipment safety requirements
 - bridge construction and sequencing
 - pre-cast concrete parapets and installation
 - bridge barriers
 - concrete and concreting
 - service installation
 - safe lifting techniques
 - safe working procedures for working at heights and over water
 - site isolation and traffic control responsibilities and authorities
 - project quality requirements
- civil construction terminology
- 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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