



Australian Government

RIICBM304D Operate a bridge inspection unit

Release: 2

RIICBM304D Operate a bridge inspection unit

Modification History

Release	Comment
1	This unit replaces RIICBM304A Operate a bridge inspection unit
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 apply operate a bridge inspection unit 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 operate a bridge inspection unit	1.1 Access, interpret and apply documentation to operate a bridge inspection unit 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. Check bridge inspection unit	2.1 Check tyres and rollers 2.2 Carry out start-up, park and shutdown procedures 2.3 Check equipment controls and functions, including implements or other attachments, brakes and manoeuvrability for serviceability and report any faults 2.4 Check emergency safety devices
3. Set up bridge inspection unit	3.1 Evaluate work activity and identify the most productive operating technique 3.2 Unfold bucket/platform and prepare for use 3.3 Position bridge inspection unit for work application and engage stabilisers to set equipment base level into place 3.4 Place tools, equipment and materials into the bucket/platform 3.5 Enter bucket/platform 3.6 Correctly attach fall arrest device
4. Operate bridge inspection unit	4.1 Manoeuvre bridge inspection unit to work location and safely and effectively manoeuvre platform into position 4.2 Carry out performance of bridge inspection unit under varied site conditions 4.3 Safely avoid obstacles 4.4 Clearly communicate location adjustment requirements to driver 4.5 Operate controls to return bridge inspection unit to travel position and proceed with shutdown sequence
5. Carry out operator maintenance	5.1 Conduct inspection and fault finding 5.2 Carry out and record regular programmed maintenance tasks
6. Clean up	6.1 Clear work area and dispose of or recycle materials 6.2 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

RIICBM304A Operate a bridge inspection unit

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 RIICBM304D Operate a bridge inspection unit

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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
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of bridge inspection unit operations including:
 - identifying and applying the most productive operating technique
- works effectively with others to undertake and complete the operation of bridge inspection units 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
 - clearly communicating location adjustment requirements to driver
- demonstrates completion of operating a bridge inspection unit that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - conducting start-up, park and shutdown procedures
 - checking equipment controls and functions, including implements, attachments, brakes and manoeuvrability

- correctly loading and entering bucket/platform and attaching fall arrest device
- operating a self-propelled or truck mounted under bridge inspection unit to inspect the underside and the outer sides of a whole bridge of at least twenty (20) metres in length, for two (2) bridges, wharves or jetties to specifications
- carrying out and recording regular programmed maintenance tasks

Knowledge Evidence

The candidate must demonstrate knowledge of operating a bridge inspection unit through:

- applying legislative, organisation and site requirements for:
 - risk assessment and management
 - site and equipment safety requirements
 - bridge construction
 - bridge components
 - under bridge inspection units and operation
 - safe working procedures for working at heights and over water
 - operational, maintenance and basic diagnostic procedures
 - 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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