



Australian Government

RIICTB304E Install or replace sub-structure members

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to install or replace sub-structure members in civil construction. This includes assessing the implications of the project on bridge capacities, preparing and erecting major and minor sub-structure members, and applying durability treatments.

It applies to those working in operational roles. They generally work under minimal supervision to undertake a broad range of tasks in varied work contexts, using some discretion and judgement in selecting equipment, services or contingency measures.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Users must check requirements with relevant body before applying the unit.

Unit Sector

Civil construction

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare to install or replace sub-structure members	1.1 Obtain, interpret, clarify and confirm work instructions 1.2 Access, interpret and apply documentation required to install or replace sub-structure members and confirm work activity is compliant 1.3 Obtain and interpret emergency procedures, and identify steps required to respond to emergencies 1.4 Select and wear personal protective equipment according to site requirements 1.5 Confirm and identify requirements for complying with

ELEMENT	PERFORMANCE CRITERIA
	environmental protection, safety and traffic management signage requirements 1.6 Identify, address and report environmental issues, potential hazards and risks 1.7 Select plant, tools and equipment required to carry out tasks and check for faults 1.8 Identify, confirm, and locate materials required for work application
2. Prepare for installation or replacement	2.1 Assess implications of project on bridge load capacity 2.2 Measure dimensions of original components 2.3 Select resources according to job requirements 2.4 Conduct follow up inspection of work according to job requirements
3. Erect major sub-structure members	3.1 Measure and prepare major sub-structure members for installation according to job requirements 3.2 Fit new members according to job requirements 3.3 Apply durability treatments to new members according to job requirements 3.4 Install connectors to new sub-structure members according to job requirements 3.5 Remove temporary supports
4. Erect minor sub-structure member	4.1 Measure and prepare minor sub-structure members for installation according to job requirements 4.2 Fit new members according to job requirements 4.3 Apply durability treatments to new members according to job requirements 4.4 Install connectors to new sub-structure members according to job requirements
5. Conduct clean-up activities	5.1 Clear work area and dispose of or recycle materials according to site requirements 5.2 Clean, check, perform maintenance on and store machinery, tools and equipment according to manufacturer specifications and site requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Numeracy	• Calculates basic measurements including mass and dimensions
Oral communication	• Identifies and interprets information from verbal instructions • Conveys information and instructions to others verbally
Self-management	• Monitors and minimises own exposure to worksite risks and hazards during work activities

Unit Mapping Information

Supersedes and is equivalent to RIICTB304D Install or replace sub-structure members.

Links

Companion Volume Implementation Guide is found on VETNet -

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