



Australian Government

RIICTB308D Install or replace truss members

Release: 2

RIICTB308D Install or replace truss members

Modification History

Release	Comment
1	This unit replaces RIICTB308A Install or replace truss members.
2	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 or replace truss members 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 install or replace truss members	1.1 Access, interpret and apply truss members installation or replacement documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify, address and report hazards, risks and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for work activities 1.5 Confirm and apply environmental protection and safety requirements 1.6 Obtain, interpret and implement traffic management signage requirements 1.7 Select and check for faults plant, tools and equipment to carry
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	out tasks 1.8 Identify, confirm, safely handle and locate, ready for use, materials required for the work application 1.9 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Produce and install truss members	2.1 Remove defective truss members 2.2 Measure truss members and prepare for installation or replacement 2.3 Fabricate new truss members to replicate or improve old truss members 2.4 Fit new truss members 2.5 Apply durability treatments to the new truss members 2.6 Install connectors and flashing to the new truss members 2.7 Adjust king bolts and re-camber truss to achieve specified camber 2.8 Remove bailey supports after new truss members are secured in place
3. Clean up	3.1 Clear work area and dispose of or recycle materials 3.2 Clean, check, maintain and store machinery, 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

RIICTB308A Install or replace truss members

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 RIICTB308D Install or replace truss members

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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 installation or replacement of truss members including:
 - selecting and using required tools and equipment
 - removing defective truss members
 - producing new truss members
 - applying durability treatments
 - installing new truss members
- works effectively with others to undertake and complete the installation or replacement of truss members that meets all of the required outcomes including:
 - organising work activities to meet all task requirements
 - 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 zone
- demonstrates completion of installing or replacing truss members that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identifying, reporting and recording hazards and risks
 - removal of at least one (1) old defective truss member
 - fabrication of one (1) new/replacement truss member

- installation of at least one (1) new truss member
- re-camber of one (1) new or replacement truss member

Knowledge Evidence

The candidate must demonstrate knowledge of installing or replacing truss members through:

- applying legislative, organisational and site requirements and procedures for:
 - site and equipment safety requirements
 - bailey bridges and bailey support system installation
 - trusses and truss members
 - timber grading and characteristics
 - connection behaviour
 - bridge foundations
 - bridge heritage
 - calculation of material requirements
- equipment types, characteristics, technical capabilities and limitations
- applying and monitoring operational, maintenance and basic diagnostic procedures
- applying site isolation and traffic control responsibilities and authorities
- interpreting and complying with materials safety data sheets and materials handling methods
- monitoring quality assurance systems and standards
- preparing and/or implementing JSAs/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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