



**Australian Government**

# **Assessment Requirements for RIICTB201E Maintain timber bridges**

**Release: 1**

# Assessment Requirements for RIICTB201E Maintain timber bridges

## Modification History

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

## Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- maintain timber bridges on at least two occasions, including:
  - replacing at least one length of sheeting/decking, a minimum of two metres in length and all associated activities, to specifications
  - replacing and painting at least one fence/barrier post and at least six metres of railing to specification
  - locating defect or fault and preparing area for rectification and reporting other defects or faults identified during maintenance.

During the above, the candidate must:

- locate and apply applicable, documentation, policies and procedures
- identify, report and record hazards and risks
- work with others to perform maintenance on timber bridges that meets required outcomes, including:
  - communicating with others to receive and clarify work instructions
  - using communication techniques and equipment to convey information to others, including signage to advise others of work activity and exclusion zones
  - completing written and verbal reporting requirements and procedures.

## Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- legislation required to maintain timber bridges
- policies, procedures and documentation required to maintain timber bridges, including those relating to:

- site and equipment safety
- hazard and risk management
- emergency response
- environmental protection
- waste management
- communication techniques and equipment
- working at heights and over water
- operational, maintenance and basic diagnostic procedures
- site isolation and traffic control responsibilities
- project quality requirements
- work orders
- job plans and specifications
- site requirements
- manufacturer specifications for required plant and equipment
- workplace reporting requirements
- principles and techniques required to maintain timber bridges, including those relating to:
  - timber bridge maintenance, including:
    - painting
    - bolt tightening and replacement
    - decking replacement
    - barrier replacement
    - cleaning
    - weed control
    - flashing repair
    - waterway cleaning
    - kerb replacement
    - whacking planks/ballast board replacement
  - scaffolding
  - preservatives and paints
  - timber grading
  - bridge foundations
  - bridge construction and sequencing
  - bridge heritage
  - calculation of material requirements
  - bracing and loading
  - interpreting engineering drawings
- types, characteristics, technical capabilities and limitations of plant and equipment required to maintain timber bridges, including:
  - power leads
  - electric drills

- augers
- oxy-acetylene equipment
- podger hammers
- bolt extraction equipment
- reaming bits
- drifts
- materials safety data sheet (SDS) compliance processes
- components of job safety analyses (JSAs), job safety environmental analyses (JSEAs), and safe work method statements (SWMs)
- civil construction terminology relating to maintaining timber bridges.

## Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
  - personal protective equipment
  - equipment required to maintain timber bridges
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment\* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

### Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge

- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current\*\* work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 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.	

\*Guidance on simulated environments has been stipulated in the RII Companion Volume Implementation Guide located on VETNet.

\*\*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 a minimum number of site assessments as determined by the relevant industry sector, across various locations.

\*\*\* While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

## Links

Companion Volume Implementation Guide is found on VETNet -

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

