



Australian Government

Department of Education, Employment and Workplace Relations

RII32109 Certificate III in Timber Bridge Construction and Maintenance

Release: 1

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Modification History

Not applicable.

Description

This qualification reflects the role of a skilled operator working in timber bridge construction and maintenance in the civil construction industry. The individual applies a broad range of skills in a varied work context, using some discretion and judgement and relevant theoretical knowledge. The individual may provide theoretical advice and support a team.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

The following table includes a summary of the employability skills as identified by the resources and infrastructure industry for this qualification. The table should be interpreted in conjunction with the detailed requirements of each unit of competency packaged in this qualification. The outcomes required here are broad industry requirements that may vary depending on packaging options.

| Employability Skill | Industry/enterprise requirements for this qualification include: |
|---------------------------|--|
| Communication | <ul style="list-style-type: none"> • speak clearly and directly • listen carefully to instructions and information • read and interpret work instructions and safety signs • calculate basic weights, distances and volumes • complete incident and maintenance reports • adjust communication style to meet the needs of people with diverse backgrounds |
| Teamwork | <ul style="list-style-type: none"> • apply teamwork in a range of situations, particularly in a safety context • contribute to the planning and execution of operations • work cooperatively with people of different ages, gender, race, religion or political persuasion and people with disability • recognise and respond sensitively to people from culturally and linguistically diverse backgrounds |
| Problem-solving | <ul style="list-style-type: none"> • adjust work methods in response to changing weather and site conditions • participate in team solutions to safety issues |
| Initiative and enterprise | <ul style="list-style-type: none"> • independently adapt to changing work conditions or different work areas • identify potential improvements to working practice and conditions • identify and assess risks in the workplace |
| Planning and organising | <ul style="list-style-type: none"> • manage time and priorities to complete work • identify and obtain appropriate equipment and permits • identify potential hazards and prepare appropriate responses • follow procedures and techniques relevant to the equipment and work being done |
| Self-management | <ul style="list-style-type: none"> • take responsibility for planning and organising own work priorities and completing assigned tasks • monitor own performance to ensure work will be completed well and on time • understand the standard of work expected at a work site |
| Learning | <ul style="list-style-type: none"> • be willing to learn new ways of working • seek information to improve performance from people and |

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| | <p>workplace documents like policies, procedures etc</p> <ul style="list-style-type: none">• understand equipment characteristics, technical capabilities, limitations and procedures |
| Technology | <ul style="list-style-type: none">• use technology to monitor and report on work progress• use communications technology appropriate to the workplace (email, mobile, radio, etc)• operate equipment safely |

Packaging Rules

Requirements for completion of the qualification

The following table provides the packaging rules for this qualification, followed by the list of relevant units of competency.

Successful completion of twenty eight (28) units of competency made up of:

- twenty three (23) mandatory units, and
- five (5) elective units of which:
 - at least four (4) must come from the electives listed below including at least two (2) at Certificate III level
 - up to one (1) unit may come from Certificate II, Certificate III or Certificate IV level from this, or any other Training Package

Units chosen must be relevant to the job function.

Care must be taken to ensure that all prerequisites specified within imported units, or units chosen as electives, are complied with.

| Mandatory units of competency | |
|--------------------------------------|---|
| <i>Unit code</i> | <i>Unit title</i> |
| RIIBEF201B | Plan and organise work |
| RIICCM201A | Carry out measurements and calculations |
| RIICCM202A | Identify, locate and protect underground services |
| RIICCM203A | Read and interpret plans and specifications |
| RIICCM205A | Carry out manual excavation |
| RIICCM206A | Support plant operations |
| RIICCM207A | Spread and compact materials manually |
| RIICCM208A | Carry out basic levelling |
| RIICCM210A | Install trench support |
| RIICOM201A | Communicate in the workplace |
| RIICTB201A | Maintain timber bridges |
| RIICTB301A | Undertake visual inspection |
| RIICTB302A | Install temporary support members |

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| RIICTB304A | Install or replace sub-structure members |
| RIICTB305A | Install or replace super-structure members |
| RIICTB306A | Splice and connect timber members |
| RIIOHS201A | Work safely and follow OHS policies and procedures |
| RIIOHS202A | Enter and work in confined spaces |
| RIIOHS205A | Control traffic with stop-slow bat |
| RIISAM201A | Handle resources and infrastructure materials and safely dispose of non toxic materials |
| RIISAM203A | Use hand and power tools |
| RIISAM204A | Operate small plant and equipment |
| RIIWMG203A | Drain and dewater civil construction site |
| Electives | |
| <i>Unit code</i> | <i>Unit title</i> |
| FPICOT2221A | Trim and cross cut felled trees |
| RIICBM304A | Operate a bridge inspection unit |
| RIICBM307A | Construct formwork and false work on concrete bridges |
| RIICCM209A | Carry out concrete work |
| RIICCM301A | Construct and dismantle fences and gates |
| RIICFW304A | Conduct pile driving operations |
| RIICFW306A | Direct pile driving operations |
| RIICTB202A | Apply bridge durability treatment |
| RIICTB203A | Produce drawings and sketches |
| RIICTB303A | Erect a temporary modular support system (bailey) on an existing bridge |
| RIICTB307A | Assemble a temporary modular bridge |
| RIICTB308A | Install or replace truss members |

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| RIICTB309A | Construct, maintain and remove coffer dams |
| RIICTB310A | Construct specialised timber deck systems |
| RIIHAN208A | Perform dogging |
| RIIHAN211A | Conduct basic scaffolding operations |
| RIIHAN302A | Conduct intermediate scaffolding operations |
| RIIOHS302A | Implement traffic management plan |
| RIIRIS201B | Conduct local risk control |
| RIISAM205A | Cut, weld and bend materials |