



Australian Government

RII40720 Certificate IV in Civil Construction

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Modification History

Release	Comments
3	This version first released with RII Resources and Infrastructure Training Package version 6.0. Version created to include revisions to Elective units. Superseded imported units updated.
2	This version was released with RII Resources and Infrastructure Training Package version 7.0. Version created to fix typographical and/or unit grid errors.
1	This qualification was first released in RII Resources and Infrastructure Industry Training Package Release 6.0.

Qualification Description

This qualification reflects the role of individuals working in supervisory and technical specialist positions in civil construction. They perform tasks involving a broad range of varied work activities most of which are specialised and within known or changing contexts. They are responsible for the quantity and quality of their own work, as well as for the output of others. They contribute to the development of technical solutions to non-routine problems.

Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Entry Requirements

This qualification has no entry requirements.

Packaging Rules

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

Specialisations

The qualification has core and elective units of competency that cover the skills for the following two (2) specialisations:

- Specialisation 1 – Supervision
- Specialisation 2 – Operations

The core and elective unit requirements of **one** (1) specialisation must be met for this qualification to be awarded.

To be awarded the Certificate IV in Civil Construction (Supervision) the following packaging rules apply:

- **Total number of units = 12**
- **5 core units** plus
- **7 elective units**, of which:
 - at least three (3) must be chosen from Group A
 - at least two (2) must be chosen from Group B
 - no more than two (2) units may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.

To be awarded the Certificate IV in Civil Construction (Operations) the following packaging rules apply:

- **Total number of units = 12**
- **5 core units** plus
- **7 elective units**, of which:
 - at least two (2) must be chosen from Group A
 - at least three (3) must be chosen from Group B
 - no more than two (2) units may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.

All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.

There are both licensed and non-licensed units of competency relating to high risk work in the Resources and Infrastructure Industry Training Package. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.

There are prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.

Core units of competency

<i>Unit code</i>	<i>Unit title</i>
BSBLDR411	Demonstrate leadership in the workplace
BSBOPS402	Coordinate business operational plans
BSBWHS411	Implement and monitor WHS policies, procedures and programs
RIICWM401E	Supervise civil works
RIIRIS401E	Apply site risk management system
Electives	
Group A (General supervision)	
BSBESB401	Research and develop business plans
BSBESB403	Plan finances for new business ventures
BSBESB404	Market new business ventures
BSBFIN401	Report on financial activity
BSBFIN501	Manage budgets and financial plans
BSBHRM413	Support the learning and development of teams and individuals
BSBINS402	Coordinate workplace information systems
BSBOPS404	Implement customer service strategies
BSBSTR401	Promote innovation in team environments
BSBSTR402	Implement continuous improvement
BSBSUS411	Implement and monitor environmentally sustainable work practices
BSBPEF402	Develop personal work priorities
BSBPMG424	Apply project human resources management approaches
BSBPMG427	Apply project procurement procedures

BSBPMG430	Undertake project work
LGACOM401A	Administer contracts
LGACOM402A	Arrange contracts
LGACOM409A	Prepare tender documentation
LGACOM410A	Prepare response to tenders
LGADMIN417A	Conduct community consultations
LGAOPS005	Manage civil plant and resources
RIICCR401E	Develop and maintain positive community relations
RIICOM301E	Communicate information
RIICWD503	Prepare traffic management plans and traffic guidance schemes
RIICWM503E	Prepare civil works cost estimates
RIICWM504E	Prepare civil works bill of quantities
RIICWM505E	Prepare civil works schedule of rates
RIIENV401E	Supervise dust and noise control
RIIENV402E	Implement and monitor environmental policies
RIIGOV401E	Apply, monitor and report on compliance systems
RIILAT402E	Provide leadership in the supervision of diverse work teams
RIIQUA401E	Apply a quality management system on site
RIIRAI402D	Apply and monitor site plant and resource management plan
RIIRIS301	Apply risk management processes
RIIRIS403E	Manage and coordinate spill response

RIISAM401E	Apply site plant, equipment and infrastructure maintenance management plans
Group B (Operations)	
LGAOPS003	Develop works maintenance schedule
LGAOPS001	Prepare for operational works
MSL924005	Process and interpret data
MSL953005	Receive and prepare samples for testing
MSL954007	Obtain representative samples in accordance with sampling plan
MSL973025	Perform basic tests
MSL973026	Prepare working solutions
MSL973018	Prepare trial batches for evaluation
MSL973021	Conduct field-based acceptance tests for construction materials
MSL973022	Conduct laboratory-based acceptance tests for construction materials
MSL974016	Perform physical and mechanical tests
MSL974031	Prepare, standardise and use solutions
MSL974032	Perform chemical tests and procedures
MSL974026	Perform tests to determine the properties of construction materials
MSL975059*	Supervise sampling, inspections and testing at construction sites
MSL975044*	Perform complex tests to measure engineering properties of materials
RIIBLA301E	Conduct surface shotfiring operations
RIIBLA401E	Manage blasting operations

RIIBLA402E	Monitor and control the effects of blasting on the environment
RIICBS401E	Supervise asphalt paving and compaction operations
RIICBS402E	Supervise the application of bituminous sprayed treatments
RIICBS403E	Supervise the application of polymer modified binders
RIICBS404E	Supervise the selection and use of bituminous emulsions
RIICBS405E	Supervise micro surfacing operations
RIICBS406E	Supervise pavement profiling operations using a profiler
RIICBS407E	Supervise the manufacture and delivery of hot mix asphalt
RIICBS408E	Supervise the manufacture of cold mixes
RIICBS409E	Supervise the manufacture of polymer modified binders
RIICBS410E	Supervise the manufacture of bituminous emulsions
RIICBS411E	Supervise the manufacture of micro surfacing mixes
RIICPL401E	Supervise the installation of underground services using open excavation
RIICRC401E	Supervise flexible pavement construction
RIICRC402E	Supervise rigid pavement construction
RIICRC403E	Supervise the stabilisation of materials
RIICRC404E	Inspect and report on pavement condition
RIICRC405E	Carry out pavement condition measurement
RIICRC406E	Supervise pavement maintenance

RIICSG401E	Supervise civil concrete structure construction
RIICSG402E	Supervise civil steel structure construction
RIICSG403E	Supervise civil timber structure construction
RIICSG404E	Supervise civil masonry, crib and gabion structure construction
RIICSG405E	Carry out inspections of civil structures
RIICSG406E	Supervise maintenance of civil structures
RIICTC307	Conduct tunnel boring machine operations
RIICTC401E	Supervise tunnel construction
RIICTC402*	Supervise tunnel boring machine operations
RIICTT401E	Supervise the installation of underground services using trenchless technology
RIICTT402E	Supervise repair and rehabilitation of underground services using trenchless technology
RIICWD525E	Select pavement surfacing
RIICWM402E	Supervise civil works contractors
RIIDML401E	Supervise demolitions
RIIMEX403E	Supervise canal construction
RIIMPO402D	Apply the principles of earthworks construction
RIIWHS302	Implement traffic management plans
RIIWHS401E	Supervise work in confined spaces

*Note the following prerequisite requirements.

Unit in this qualification	Prerequisite units
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RIICTC402 Supervise tunnel boring machine operations	RIICTC307 Conduct tunnel boring machine operations
MSL975031 Supervise sampling, inspections and testing at construction sites	- MSL954004 Obtain representative samples in accordance with sampling plan - MSL973021 Conduct field-based acceptance tests for construction materials
MSL975044 Perform complex tests to measure engineering properties of materials	- MSL973022 Conduct laboratory-based acceptance tests for construction materials - MSL974026 Perform tests to determine the properties of construction materials

Specialisations

The achievement of a specialisation will be identified on testamurs as follows:

- RII40720 Certificate IV in Civil Construction (Supervision)
- RII40720 Certificate IV in Civil Construction (Operations).

Pre-requisite Requirements

Unit of competency	Prerequisite requirement
MSL974026 Perform tests to determine the properties of construction materials	MSL973022 Conduct laboratory-based acceptance tests for construction materials
MSL975044 Perform complex tests to measure engineering properties of materials	MSL973022 Conduct laboratory-based acceptance tests for construction materials MSL974026 Perform tests to determine the properties of construction materials
MSL975059 Supervise sampling, inspections and testing at construction sites	MSL954007 Obtain representative samples in accordance with sampling plan MSL973021 Conduct field-based acceptance tests for construction materials
RIICTC402 Supervise tunnel boring machine operations	RIICTC306 Conduct tunnel boring machine operations

Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
RII40720 Certificate IV in Civil Construction	RII40615 Certificate IV in Civil Construction Operations		Equivalent
RII40720 Certificate IV in Civil Construction	RII40715 Certificate IV in Civil Construction Supervision		Equivalent

Links

Companion volumes, including implementation guides, are found on the national training register - <https://training.gov.au/training/details/RII>.