Australian Government

RII30926 Certificate III in Civil Construction

Release: 1

RII30926 Certificate III in Civil Construction

Modification History

Release	Comments
1	This qualification was first released in RII Resources and Infrastructure Industry Training Package Release 11.0.

Qualification Description

This qualification reflects the role of individuals working as skilled operators in civil construction, who apply a broad range of skills in varied work contexts, using some discretion and judgement and relevant theoretical knowledge. The individual may provide theoretical advice and support a team.

The qualification applies to specialist occupations in bituminous surfacing, bridge construction and maintenance, pipe laying, road construction and maintenance, road marking, tunnel construction, timber bridge construction and maintenance, traffic management and general civil construction occupations.

Licensing/Regulatory Information

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

Foundation Skills Outcomes

The foundation skills outcomes in this qualification are outlined below.

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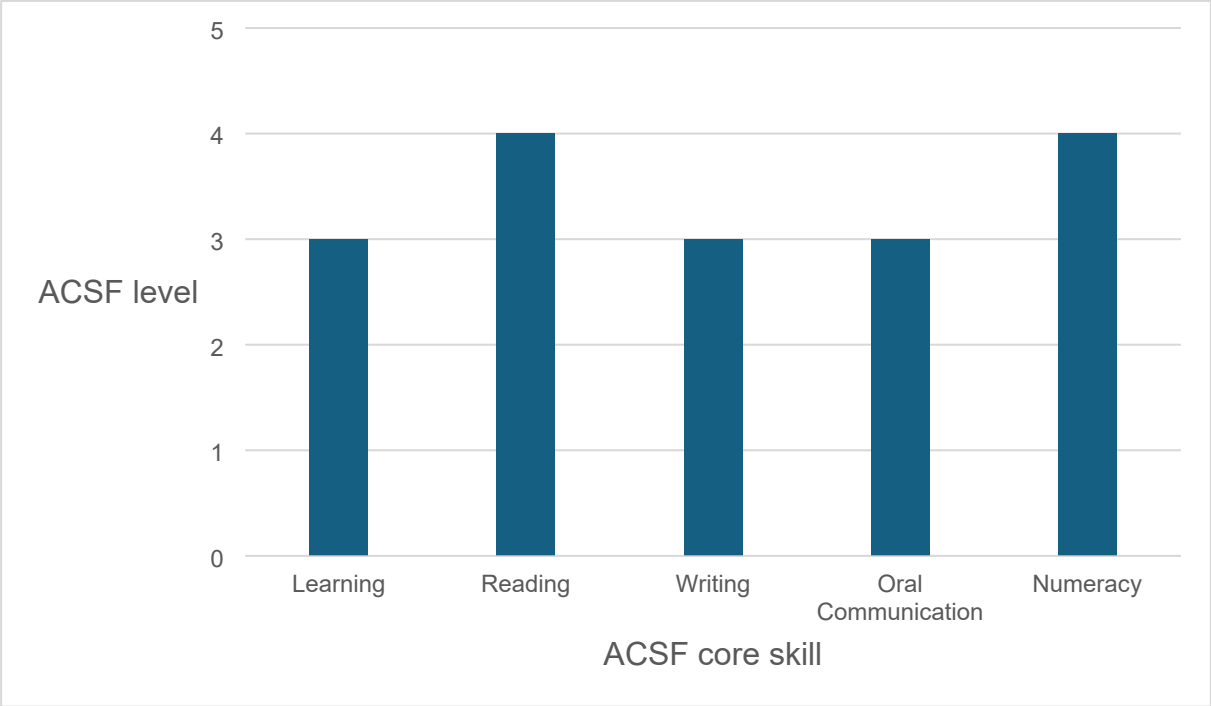

Entry Requirements

Nil

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 eight (8) specialist and one (1) general civil construction specialisations:

- Specialisation 1 – Bituminous Surfacing
- Specialisation 2 – Bridge Construction and Maintenance
- Specialisation 3 – Pipe Laying
- Specialisation 4 – Road Construction and Maintenance
- Specialisation 5 – Road Marking
- Specialisation 6 – Tunnel Construction
- Specialisation 7 – Timber Bridge Construction and Maintenance
- Specialisation 8 – Traffic Management
- Specialisation 9 – Civil Construction General

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

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

The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. 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.

To be awarded the Certificate III in Civil Construction (Bituminous Surfacing) the following packaging rules apply:

- **Total number of units = 25**
- **8 core units** plus
- **17 elective units**, of which:
- at least four (4) must be chosen from the electives in Group A and/or Group B
- up to nine (9) may be chosen from the electives in Group C
- up to four (4) may be chosen from the electives listed below, elsewhere within this training package, or from another endorsed training package, or from an accredited course.

To be awarded the Certificate III in Civil Construction (Bridge Construction and Maintenance) the following packaging rules apply:

- **Total number of units = 26**
- **8 core units** plus
- **18 elective units**, of which:
- eight (8) must be chosen from Group D
- at least two (2) must be chosen from Group E
- at least three (3) must be chosen from Group F
- up to five (5) may be chosen from the electives listed below, elsewhere within this training package, or from another endorsed training package, or from an accredited course.

To be awarded the Certificate III in Civil Construction (Pipe Laying) the following packaging rules apply:

- **Total number of units = 26**
- **8 core units** plus
- **18 elective units**, of which:

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- ten (10) must be chosen from Group G
- at least one (1) must be chosen from Group H
- at least three (3) must be chosen from Group I
- up to four (4) may be chosen from the electives below, elsewhere within this training package, or from another endorsed training package, or from an accredited course.

To be awarded the Certificate III in Civil Construction (Road Construction and Maintenance) the following packaging rules apply:

- **Total number of units = 26**
- **8 core units** plus
- **18 elective units,** of which:
- nine (9) must be chosen from Group J
- at least two (2) must be chosen from Group K
- at least two (2) must be chosen from Group L
- up to five (5) may be chosen from the electives below, elsewhere within this training package, or from another endorsed training package, or from an accredited course
- at least five (5) of the eighteen (18) elective units chosen must be road construction and maintenance (RIICRC) units.

To be awarded the Certificate III in Civil Construction (Road Marking) the following packaging rules apply:

- **Total number of units = 23**
- **8 core units** plus
- **15 elective units**, of which:
- four (4) must be chosen from Group M
- at least one (1) must be chosen from Group N
- at least six (6) must be chosen from Group O
- up to four (4) may be chosen from the electives listed below, elsewhere within this training package, or from another endorsed training package, or from an accredited course
- at least seven (7) of the fifteen (15) elective units chosen must be road marking (RIICRM) units.

To be awarded the Certificate III in Civil Construction (Tunnel Construction) the following packaging rules apply:

- **Total number of units = 26**

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- **8 core units** plus
- **18 elective units**, of which:
- at least five (5) must be chosen from Group P
- at least six (6) must be chosen from Group Q
- at least two (2) must be chosen from Group R
- up to five (5) may be chosen from the electives listed below, elsewhere within this training package, or from another endorsed training package, or from an accredited course
- at least two (2) of the eighteen (18) elective units chosen must be tunnel construction (RIICTC) units.

To be awarded the Certificate III in Civil Construction (Timber Bridge Construction and Maintenance) the following packaging rules apply:

- **Total number of units = 29**
- **8 core units** plus
- **21 elective units**, of which:
- twelve (12) must be chosen from Group S
- at least two (2) must be chosen from Group T
- at least two (2) must be chosen from Group U
- up to five (5) may be chosen from the electives listed below, elsewhere within this training package, or from another endorsed training package, or from an accredited course.

To be awarded the Certificate III in Civil Construction (Traffic Management) the following packaging rules apply:

- **Total number of units = 25**
- **8 core units** plus
- **17 elective units**, of which:
- eight (8) must be chosen from Group V
- at least four (4) must be chosen from Group W
- at least three (3) must be chosen from Group X
- up to two (2) may be chosen from the electives listed below, elsewhere within this training package, or from another endorsed training package, or from an accredited course.

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To be awarded the Certificate III in Civil Construction (General) the following packaging rules apply:

- **Total number of units = 25**
- **8 core units** plus
- **17 elective units**, of which:
- at least four (4) must be chosen from one of Groups YA-YK
- at least ten (10) must be chosen from Group Z
- up to three (3) may be chosen from the electives listed below, elsewhere within this training package, or from another endorsed training package, or from an accredited course
- at least five (5) of the seventeen (17) elective units chosen must have a numerical code beginning with 3.

Core units of competency	
Unit code	***Unit title***
RIIBEF201	Plan and organise work
RIICCM201E	Carry out measurements and calculations
RIICCM203E	Read and interpret plans and job specifications
RIICOM201E	Communicate in the workplace
RIIRIS301	Apply risk management processes
RIISAM203E	Use hand and power tools
RIISAM204E	Operate small plant and equipment
RIIWHS201E	Work safely and follow WHS policies and procedures
Electives	
Group A Asphalt Surfacing	
RIICBS202E	Hand spread asphalt
RIICBS301E	Conduct profile planer operations
RIICBS302E	Conduct paver screeding operations

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RIICBS303E	Conduct materials transfer vehicle operations
RIICBS304E	Compact asphalt with rollers
RIICBS305E	Conduct asphalt paver operation
RIICBS311E	Produce asphalt products
RIICBS313	Conduct tack coat spraying operations
RIICCM207E	Spread and compact materials manually
Group B Spray Sealing	
RIICBS306E	Conduct micro surfacing operations
RIICBS307E	Conduct bitumen sprayer operations
RIICBS308E	Load aggregate using purpose built loaders
RIICBS309E	Conduct self-propelled aggregate spreader operations
RIICBS312E	Conduct bitumen tanker operations
RIICBS314	Conduct aggregate spreader box operations
RIICBS315	Roll aggregate in sprayed sealing operations
RIICBS402E	Supervise the application of bituminous sprayed treatments
Group C Bituminous Surfacing (General)	
BSBOPS304	Deliver and monitor a service to customers
BSBOPS402	Coordinate business operational plans
BSBTWK301	Use inclusive work practices
BSBXTW301	Work in a team
RIICBS203E	Safely handle bituminous materials

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RIICBS207E	Take samples of road surfacing materials
RIICBS310E	Conduct patching operations
RIICBS316	Conduct pavement sweeping operations
RIICBS317	Conduct road maintenance operations
RIICCM205F	Carry out manual excavation
RIIIMG301E	Maintain site records
RIIRIS202E	Respond to site based spills
RIISAM201E	Handle resources and infrastructure materials and safely dispose of nontoxic materials
RIIVEH304E	Conduct tip truck operations
RIIWHS302	Implement traffic management plans
Group D Bridge Construction and Maintenance (Specialisation Core)	
RIICCM202	Identify, locate and protect underground services
RIICCM205F	Carry out manual excavation
RIICCM206	Support plant operations
RIICCM207E	Spread and compact materials manually
RIICCM208	Carry out basic levelling
RIISAM201E	Handle resources and infrastructure materials and safely dispose of nontoxic materials
RIIWHS204	Work safely at heights
RIIWMG203E	Drain and dewater civil construction sites
Group E Bridge Construction And Maintenance (Technical)	
RIICBM301E	Maintain concrete bridges
RIICBM302E*	Install pre-cast girders

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RIICBM303E	Install pre-cast parapets
RIICBM304E	Operate bridge inspection units
RIICBM305E*	Install pre-cast concrete bridge decks
RIICBM306E	Undertake concreting work on concrete bridges
RIICBM307E	Construct formwork and false work on concrete bridges
Group F Bridge Construction And Maintenance (General)	
BSBTWK301	Use inclusive work practices
CPCCCM2007*	Use explosive power tools
CPCCLDG3001	Licence to perform dogging
CPCCLRG3001*	Licence to perform rigging basic level
CPCCLSF2001	Licence to erect, alter and dismantle scaffolding basic level
CPCCSF2004*	Place and fix reinforcement materials
CPCCWHS2001	Apply WHS requirements, policies and procedures in the construction industry
RIICBM201E	Strip pile heads
RIICCM209	Carry out concrete work
RIICCM210	Install trench support
RIICCM211E	Construct and dismantle fences and gates
RIICRC201E	Repair potholes
RIICRC208E	Lay pipes
RIIHAN208E	Perform dogging
RIIHAN211D	Conduct basic scaffolding operations
RIIHAN301E	Operate elevating work platform

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RIIHAN302D	Conduct intermediate scaffolding operations
RIIIMG301E	Maintain site records
RIIRIS201E	Conduct local risk control
RIIRIS202E	Respond to site based spills
RIISAM205E	Cut, weld and bend materials
RIIWHS202	Enter and work in confined spaces
RIIWHS205E	Control traffic with stop-slow bat
RIIWHS302	Implement traffic management plans
RIIWMG301E	Control construction site water tables
TLILIC0003	Licence to operate a forklift truck
Group G Pipe Laying (Specialisation Core)	
RIICCM202	Identify, locate and protect underground services
RIICCM205F	Carry out manual excavation
RIICCM206	Support plant operations
RIICCM207E	Spread and compact materials manually
RIICCM208	Carry out basic levelling
RIICCM210	Install trench support
RIICRC208E	Lay pipes
RIISAM201E	Handle resources and infrastructure materials and safely dispose of nontoxic materials
RIIWHS302	Implement traffic management plans
RIIWMG203E	Drain and dewater civil construction sites
Group H Pipe Laying (Technical)	
RIICPL301E	Install water mains pipelines

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RIICPL302E	Install stormwater systems
RIICPL303E	Install sewer pipelines
Group I Pipe Laying (General)	
BSBTWK301	Use inclusive work practices
CPCCCM2007*	Use explosive power tools
CPCCLDG3001	Licence to perform dogging
CPCCLRG3001*	Licence to perform rigging basic level
PMBWELD302E	Join polyethylene plastic pipelines using electrofusion welding
RIICCM209	Carry out concrete work
RIICCM211E	Construct and dismantle fences and gates
RIICPL304E	Install pre-cast gully pits
RIICPL305E	Install pre-cast access chambers
RIICRC201E	Repair potholes
RIICRC203E	Install sub-soil drainage
RIICRC209E	Lay reinforced concrete box culverts
RIICRC301E	Maintain drainage systems
RIIHAN208E	Perform dogging
RIIHAN211D	Conduct basic scaffolding operations
RIIHAN301E	Operate elevating work platform
RIIIMG301E	Maintain site records
RIIMPO327E	Conduct pipe layer operations
RIIRIS201E	Conduct local risk control
RIIRIS202E	Respond to site based spills
RIISAM205E	Cut, weld and bend materials
RIIWHS202	Enter and work in confined spaces

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RIIWHS204	Work safely at heights
RIIWHS205E	Control traffic with stop-slow bat
RIIWMG301E	Control construction site water tables
Group J Road Construction and Maintenance (Specialisation Core)	
RIICCM202	Identify, locate and protect underground services
RIICCM205F	Carry out manual excavation
RIICCM206	Support plant operations
RIICCM207E	Spread and compact materials manually
RIICCM208	Carry out basic levelling
RIICRC201E	Repair potholes
RIISAM201E	Handle resources and infrastructure materials and safely dispose of nontoxic materials
RIIWHS302	Implement traffic management plans
RIIWMG203E	Drain and dewater civil construction sites
Group K Road Construction and Maintenance (Technical)	
RIICRC301E	Maintain drainage systems
RIICRC302E	Place and form concrete kerb, channel and fixtures
RIICRC303E	Lay pavers
RIICRC304E	Maintain sealed roads
RIICRC305E	Conduct road construction paver screeding operations
RIICRC306E	Conduct earthworks
RIICRC307E	Conduct road pavement construction
RIICRC309E	Conduct stabiliser operations

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RIICRC311E	Conduct concrete road paver operations
RIICRC312E	Set up and maintain concrete paver stringlines
RIICRC313E	Conduct concrete road curing and texturing operations
RIICRC314E	Handle concrete materials
RIICRC315E	Use concreting materials and equipment
RIICRC316E	Place and compact concrete
RIICRC317E	Finish concrete pavements
RIICRC318E	Cure concrete
RIICRC319E	Saw and cut concrete pavements to initiate planned cracks
RIICRC320E	Seal concrete pavements
RIICRC321E	Use automated paving guidance systems
RIICRC322E	Receive, check and record concrete deliveries
RIICRC323E	Insert tie bars in fresh concrete
Group L Road Construction and Maintenance (General)	
BSBTWK301	Use inclusive work practices
CPCCCM2007*	Use explosive power tools
CPCCLDG3001	Licence to perform dogging
CPCCLRG3001*	Licence to perform rigging basic level
CPCCLSF2001	Licence to erect, alter and dismantle scaffolding basic level
CPCCSF2004*	Place and fix reinforcement materials
FWPCOT2273	Trim and cut felled trees
FWPCOT3350	Fell trees manually (intermediate)

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RIICBS202E	Hand spread asphalt
RIICBS203E	Safely handle bituminous materials
RIICBS301E	Conduct profile planer operations
RIICCM209	Carry out concrete work
RIICCM210	Install trench support
RIICCM211E	Construct and dismantle fences and gates
RIICPL302E	Install stormwater systems
RIICPL304E	Install pre-cast gully pits
RIICPL305E	Install pre-cast access chambers
RIICRC202E	Install signs
RIICRC203E	Install sub-soil drainage
RIICRC204E	Install and maintain roadside fixtures
RIICRC205E	Install utility poles
RIICRC206E	Install pre-cast concrete crash barriers
RIICRC207E	Install noise barriers
RIICRC208E	Lay pipes
RIICRC209E	Lay reinforced concrete box culverts
RIIHAN201E	Operate a forklift
RIIHAN208E	Perform dogging
RIIHAN211D	Conduct basic scaffolding operations
RIIHAN301E	Operate elevating work platform
RIIHAN307E	Operate a vehicle loading crane
RIIIMG301E	Maintain site records
RIIRIS201E	Conduct local risk control
RIIRIS202E	Respond to site based spills

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RIISAM205E	Cut, weld and bend materials
RIIWHS202	Enter and work in confined spaces
RIIWHS204	Work safely at heights
RIIWHS205E	Control traffic with stop-slow bat
RIIWMG301E	Control construction site water tables
TLID3011	Conduct specialised forklift operations
TLILIC0003	Licence to operate a forklift truck
Group M Road Marking (Specialisation Core)	
RIICRM202E	Handle and store road marking materials
RIICRM204E	Prepare surfaces for road marking
RIIIMG301E	Maintain site records
RIISAM201E	Handle resources and infrastructure materials and safely dispose of nontoxic materials
Group N Road Marking (Technical)	
RIICRM301E	Conduct ride on road marking operations
RIICRM302E	Conduct long line road marking operations
RIICRM303E	Conduct thermo plastic road marking operations
Group O Road Marking (General)	
BSBTWK301	Use inclusive work practices
CPCCLDG3001	Licence to perform dogging
CPCCLRG3001*	Licence to perform rigging basic level
CPCCLSF2001	Licence to erect, alter and dismantle scaffolding basic level
RIICCM205F	Carry out manual excavation

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RIICCM206	Support plant operations
RIICCM208	Carry out basic levelling
RIICCM209	Carry out concrete work
RIICRC202E	Install signs
RIICRM201F	Escort mobile works
RIICRM203E	Conduct pedestrian road marking operations
RIICRM205E	Conduct road marking measuring operations
RIICRM206E	Conduct airless and atomised spraying operations
RIICRM207E	Install raised pavement markers
RIIHAN201E	Operate a forklift
RIIHAN208E	Perform dogging
RIIHAN301E	Operate elevating work platform
RIIHAN307E	Operate a vehicle loading crane
RIIRIS201E	Conduct local risk control
RIIRIS202E	Respond to site based spills
RIISAM205E	Cut, weld and bend materials
RIIWHS204	Work safely at heights
RIIWHS205E	Control traffic with stop-slow bat
RIIWHS302	Implement traffic management plans
TLILIC0003	Licence to operate a forklift truck
Group P Tunnel Construction (Specialisation Core)	
RIICCM202	Identify, locate and protect underground services
RIICCM205F	Carry out manual excavation

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RIICCM206	Support plant operations
RIICCM207E	Spread and compact materials manually
RIICCM208	Carry out basic levelling
RIICRC203E	Install sub-soil drainage
RIISAM201E	Handle resources and infrastructure materials and safely dispose of nontoxic materials
RIIWMG203E	Drain and dewater civil construction sites
Group Q Tunnel Construction (Technical)	
RIIBLA303E	Conduct underground development shotfiring
RIICCM211E	Construct and dismantle fences and gates
RIICFW302E	Install temporary and permanent rock anchors
RIICFW303E	Install primary ground supports
RIICRC301E	Maintain drainage systems
RIICTC301E	Install tunnelling constructions services
RIICTC302E	Line tunnels
RIICTC303E	Excavate tunnel by machine
RIICTC304E	Muck out tunnel earthworks
RIICTC305E	Construct portals
RIICTC307	Conduct tunnel boring machine operations
RIIHAN301E	Operate elevating work platform
RIIUND310E	Apply shotcrete underground
Group R Tunnel Construction (General)	
BSBTWK301	Use inclusive work practices

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CPCCCM2007*	Use explosive power tools
CPCCLDG3001	Licence to perform dogging
CPCCLRG3001*	Licence to perform rigging basic level
CPCCLSF2001	Licence to erect, alter and dismantle scaffolding basic level
CPCCWHS2001	Apply WHS requirements, policies and procedures in the construction industry
RIIBLA202F	Support underground shotfiring operations
RIIBLA205E	Store, handle and transport explosives
RIICCM209	Carry out concrete work
RIICCM210	Install trench support
RIICCM211E	Construct and dismantle fences and gates
RIICRC201E	Repair potholes
RIICRC208E	Lay pipes
RIIHAN208E	Perform dogging
RIIHAN211D	Conduct basic scaffolding operations
RIIRIS201E	Conduct local risk control
RIIRIS202E	Respond to site based spills
RIISAM205E	Cut, weld and bend materials
RIIWHS202	Enter and work in confined spaces
RIIWHS204	Work safely at heights
RIIWHS205E	Control traffic with stop-slow bat
RIIWHS302	Implement traffic management plans
TLILIC0003	Licence to operate a forklift truck
Group S Timber Bridge Construction and Maintenance (Specialisation Core)	

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RIICCM202	Identify, locate and protect underground services
RIICCM205F	Carry out manual excavation
RIICCM206	Support plant operations
RIICCM210	Install trench support
RIICTB201E	Maintain timber bridges
RIICTB301E	Undertake visual inspections
RIICTB302E	Install temporary support members
RIICTB304E	Install or replace sub-structure members
RIICTB305E	Install or replace super-structure members
RIICTB306E	Splice and connect timber members
RIISAM201E	Handle resources and infrastructure materials and safely dispose of nontoxic materials
RIIWHS204	Work safely at heights
Group T Timber Bridge Construction and Maintenance (Technical)	
RIICBM304E	Operate bridge inspection units
RIICBM307E	Construct formwork and false work on concrete bridges
RIICCM211E	Construct and dismantle fences and gates
RIICFW304E	Conduct pile driving operations
RIICFW306E	Direct pile driving operations
RIICTB303E	Erect temporary modular support systems (baileys) on existing bridges
RIICTB307E	Assemble and disassemble temporary modular bridges
RIICTB308E	Install or replace truss members

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RIICTB309E	Construct, maintain and remove coffer dams
RIICTB310E	Construct specialised timber deck systems
RIIHAN302D	Conduct intermediate scaffolding operations
RIIWHS302	Implement traffic management plans
Group U Timber Bridge Construction and Maintenance (General)	
BSBTWK301	Use inclusive work practices
CPCCLDG3001	Licence to perform dogging
CPCCLRG3001*	Licence to perform rigging basic level
CPCCLSF2001	Licence to erect, alter and dismantle scaffolding basic level
FWPCOT2273	Trim and cut felled trees
RIICCM207E	Spread and compact materials manually
RIICCM208	Carry out basic levelling
RIICCM209	Carry out concrete work
RIICTB202E	Apply bridge durability treatments
RIICTB203E	Produce bridge drawings and sketches
RIIHAN208E	Perform dogging
RIIHAN211D	Conduct basic scaffolding operations
RIIRIS201E	Conduct local risk control
RIIRIS202E	Respond to site based spills
RIISAM205E	Cut, weld and bend materials
RIIWHS202	Enter and work in confined spaces
RIIWHS205E	Control traffic with stop-slow bat
RIIWMG203E	Drain and dewater civil construction sites

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TLILIC0003	Licence to operate a forklift truck
Group V Traffic Management (Specialisation Core)	
FBPOPR2074	Carry out manual handling tasks
RIIRIS201E	Conduct local risk control
RIIRTM203E	Work as a safety observer/spotter
RIISTD201E	Read and interpret maps
RIIVEH201E	Operate a light vehicle
RIIWHS205E	Control traffic with stop-slow bat
RIIWHS302	Implement traffic management plans
TLIE3004	Prepare workplace documents
Group W Traffic Management (Technical)	
RIICRM201F	Escort mobile works
RIICWD503	Prepare traffic management plans and traffic guidance schemes
RIIRTM201E	Position, set-up and operate variable message signs
RIIRTM202E	Position, set-up and operate portable traffic signals
RIIRTM301E	Operate truck or trailer mounted attenuators
RIIWHS206	Control traffic with portable traffic control devices and temporary traffic signs
RIIWHS303	Position, set up and program portable traffic control devices
RIIWHS304*	Implement traffic management plans on high volume roads
RIIWHS305*	Implement traffic management plans on motorways and freeways

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Group X Traffic Management (General)	
BSBSUS211	Participate in sustainable work practices
BSBTWK301	Use inclusive work practices
HLTAID011	Provide First Aid
RIIBEF202E	Identify and rectify site operating problems
RIIBEF301D	Run on-site operations
RIIBEF402D	Supervise on-site operations
RIICCM206	Support plant operations
RIICRC202E	Install signs
RIICRC206E	Install pre-cast concrete crash barriers
RIIGOV201E	Comply with site work processes/procedures
RIIGOV401E	Apply, monitor and report on compliance systems
RIIHAN201E	Operate a forklift
RIIQUA201E	Maintain and monitor site quality standards
RIIRIS402E	Carry out the risk management process
TAEDEL311	Provide work skill instruction
TLIE2007	Use communications systems
TLIL0007	Complete workplace induction procedures
Group YA General – Asphalt Surfacing	
RIICBS202E	Hand spread asphalt
RIICBS207E	Take samples of road surfacing materials
RIICBS301E	Conduct profile planer operations

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RIICBS302E	Conduct paver screeding operations
RIICBS304E	Compact asphalt with rollers
RIICBS305E	Conduct asphalt paver operation
RIICBS310E	Conduct patching operations
RIICBS311E	Produce asphalt products
RIICBS317	Conduct road maintenance operations
RIICBS203E	Safely handle bituminous materials
Group YB General – Spray Sealing	
RIICBS203E	Safely handle bituminous materials
RIICBS303E	Conduct materials transfer vehicle operations
RIICBS306E	Conduct micro surfacing operations
RIICBS307E	Conduct bitumen sprayer operations
RIICBS308E	Load aggregate using purpose built loaders
RIICBS309E	Conduct self-propelled aggregate spreader operations
RIICBS312E	Conduct bitumen tanker operations
RIICBS313	Conduct tack coat spraying operations
RIICBS314	Conduct aggregate spreader box operations
RIICBS315	Roll aggregate in sprayed sealing operations
RIICBS316	Conduct pavement sweeping operations
Group YC General – Concrete Bridge Construction	
RIICBM201E	Strip pile heads
RIICBM301E	Maintain concrete bridges

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RIICBM302E*	Install pre-cast girders
RIICBM303E	Install pre-cast parapets
RIICBM304E	Operate bridge inspection units
RIICBM305E*	Install pre-cast concrete bridge decks
RIICBM306E	Undertake concreting work on concrete bridges
RIICBM307E	Construct formwork and false work on concrete bridges
Group YD General – Foundations	
RIICFW301E	Construct underpinning
RIICFW302E	Install temporary and permanent rock anchors
RIICFW303E	Install primary ground supports
RIICFW304E	Conduct pile driving operations
RIICFW305E	Conduct cast in-situ pilings operations
RIICFW306E	Direct pile driving operations
RIICFW307E	Direct cast in-situ piling operations
RIICFW308	Conduct screw piling operations
Group YE General – Pipe Laying	
RIICPL301E	Install water mains pipelines
RIICPL302E	Install stormwater systems
RIICPL303E	Install sewer pipelines
RIICPL304E	Install pre-cast gully pits
RIICPL305E	Install pre-cast access chambers
RIICRC208E	Lay pipes
RIICRC209E	Lay reinforced concrete box culverts

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RIICRC301E	Maintain drainage systems
Group YF General – Road Marking	
RIICRM201F	Escort mobile works
RIICRM202E	Handle and store road marking materials
RIICRM203E	Conduct pedestrian road marking operations
RIICRM204E	Prepare surfaces for road marking
RIICRM205E	Conduct road marking measuring operations
RIICRM206E	Conduct airless and atomised spraying operations
RIICRM207E	Install raised pavement markers
RIICRM301E	Conduct ride on road marking operations
RIICRM302E	Conduct long line road marking operations
RIICRM303E	Conduct thermo plastic road marking operations
Group YG General – Timber Bridge Construction	
RIICTB201E	Maintain timber bridges
RIICTB202E	Apply bridge durability treatments
RIICTB203E	Produce bridge drawings and sketches
RIICTB301E	Undertake visual inspections
RIICTB302E	Install temporary support members
RIICTB303E	Erect temporary modular support systems (baileys) on existing bridges
RIICTB304E	Install or replace sub-structure members
RIICTB305E	Install or replace super-structure members

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RIICTB306E	Splice and connect timber members
RIICTB307E	Assemble and disassemble temporary modular bridges
RIICTB308E	Install or replace truss members
RIICTB309E	Construct, maintain and remove coffer dams
RIICTB310E	Construct specialised timber deck systems
Group YH General – Trenchless Technology	
RIICTT301E	Conduct fluid assisted directional boring
RIICTT302E	Conduct impact moling, ramming and augering operations
RIICTT303E	Control micro tunnelling and pipe-jacking operations
RIICTT304E	Undertake on-line replacement for existing pipeline systems
RIICTT305E	Undertake localised repair and sealing of existing pipeline systems
RIICTT306E	Install cure in-place linings for existing pipeline systems
RIICTT307E	Spray linings for existing pipeline systems
RIICTT308E	Install close-fit linings for existing pipeline systems
RIICTT309E	Install slip lining in existing pipeline systems
RIICTT310E	Renovate large diameter pipes and chambers
RIIOGF302E	Operate drilling fluids and mud pits
RIIOGN303E	Operate, monitor and maintain mud systems

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Group YI General – Tunnelling	
RIICTC301E	Install tunnelling constructions services
RIICTC302E	Line tunnels
RIICTC303E	Excavate tunnel by machine
RIICTC304E	Muck out tunnel earthworks
RIICTC305E	Construct portals
RIICTC307	Conduct tunnel boring machine operations
Group YJ General – Traffic Management	
RIIBEF301D	Run on-site operations
RIICWD503	Prepare traffic management plans and traffic guidance schemes
RIIRIS402E	Carry out the risk management process
RIIRTM201E	Position, set-up and operate variable message signs
RIIRTM202E	Position, set-up and operate portable traffic signals
RIIRTM301E	Operate truck or trailer mounted attenuators
RIIWHS206	Control traffic with portable traffic control devices and temporary traffic signs
RIIWHS303	Position, set up and program portable traffic control devices
RIIWHS304*	Implement traffic management plans on high volume roads
RIIWHS305*	Implement traffic management plans on motorways and freeways
Group YK General – Utilities	

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ICTCBL334	Install underground enclosures and conduit
PMBWELD301E	Join polyethylene plastic pipelines using butt welding
PMBWELD302E	Join polyethylene plastic pipelines using electrofusion welding
RIICCM202	Identify, locate and protect underground services
RIICPL301E	Install water mains pipelines
RIICPL303E	Install sewer pipelines
RIICRC203E	Install sub-soil drainage
RIIHAN308	Load and unload plant
RIIMPO320	Conduct civil construction excavator operations
RIIWMG203E	Drain and dewater civil construction sites
Group Z General – General and Other Units	
BSBOPS304	Deliver and monitor a service to customers
BSBOPS402	Coordinate business operational plans
BSBTWK301	Use inclusive work practices
BSBXTW301	Work in a team
CPCCCM2007*	Use explosive power tools
CPCCLDG3001	Licence to perform dogging
CPCCLRG3001*	Licence to perform rigging basic level
CPCCLSF2001	Licence to erect, alter and dismantle scaffolding basic level
CPCCSF2004*	Place and fix reinforcement materials
FWPCOT2273	Trim and cut felled trees

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FWPCOT3350	Fell trees manually (intermediate)
RIIBLA201E	Support shotfiring operations
RIIBLA202F	Support underground shotfiring operations
RIIBLA205E	Store, handle and transport explosives
RIIBLA301E	Conduct surface shotfiring operations
RIIBLA303E	Conduct underground development shotfiring
RIICCM202	Identify, locate and protect underground services
RIICCM205F	Carry out manual excavation
RIICCM206	Support plant operations
RIICCM207E	Spread and compact materials manually
RIICCM208	Carry out basic levelling
RIICCM209	Carry out concrete work
RIICCM210	Install trench support
RIICCM211E	Construct and dismantle fences and gates
RIICRC201E	Repair potholes
RIICRC202E	Install signs
RIICRC203E	Install sub-soil drainage
RIICRC204E	Install and maintain roadside fixtures
RIICRC205E	Install utility poles
RIICRC206E	Install pre-cast concrete crash barriers
RIICRC207E	Install noise barriers
RIICRC302E	Place and form concrete kerb, channel and fixtures
RIICRC303E	Lay pavers

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RIICRC304E	Maintain sealed roads
RIICRC305E	Conduct road construction paver screeding operations
RIICRC306E	Conduct earthworks
RIICRC307E	Conduct road pavement construction
RIIHAN201E	Operate a forklift
RIIHAN208E	Perform dogging
RIIHAN211D	Conduct basic scaffolding operations
RIIHAN301E	Operate elevating work platform
RIIHAN307E	Operate a vehicle loading crane
RIIHAN308	Load and unload plant
RIIHAN309F	Conduct telescopic materials handler operations
RIIIMG301E	Maintain site records
RIIMPO318	Conduct civil construction skid steer loader operations
RIIMPO334E	Conduct skid steer loader operations using attachments
RIIMPO339A	Conduct side tipper operations
RIIRIS201E	Conduct local risk control
RIIRIS202E	Respond to site based spills
RIIRTM203E	Work as a safety observer/spotter
RIISAM205E	Cut, weld and bend materials
RIIWHS202	Enter and work in confined spaces
RIIWHS204	Work safely at heights
RIIWHS205E	Control traffic with stop-slow bat
RIIWHS302	Implement traffic management plans

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RIIWMG203E	Drain and dewater civil construction sites
RIIWMG301E	Control construction site water tables
TLID3011	Conduct specialised forklift operations
TLILIC0003	Licence to operate a forklift truck

* Units of competency marked with an * contain prerequisites.

Specialisations

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

- RII30926 Certificate III in Civil Construction (Bituminous Surfacing)
- RII30926 Certificate III in Civil Construction (Bridge Construction and Maintenance)
- RII30926 Certificate III in Civil Construction (Pipe Laying)
- RII30926 Certificate III in Civil Construction (Road Construction and Maintenance)
- RII30926 Certificate III in Civil Construction (Road Marking)
- RII30926 Certificate III in Civil Construction (Tunnel Construction)
- RII30926 Certificate III in Civil Construction (Timber Bridge Construction and Maintenance)
- RII30926 Certificate III in Civil Construction (Traffic Management)
- RII30926 Certificate III in Civil Construction (Civil Construction General)

Pre-requisite Requirements

Unit of competency	Pre-requisite requirement
CPCCCM2007 Use explosive power tools	CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry.
CPCCLRG3001 Licence to perform rigging basic level	CPCCLDG3001 Licence to perform dogging
CPCCSF2004 Place and fix reinforcement materials	CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry
RIICBM302E Install pre-cast girders	CPCCLDG3001A Licence to perform dogging

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RIICBM305E Install pre-cast concrete bridge decks	CPCCLDG3001A Licence to perform dogging
RIIWHS304 Implement traffic management plans on high volume roads	RIIWHS302E Implement traffic management plans
RIIWHS305 Implement traffic management plans on motorways and freeways	RIIWHS302E Implement traffic management plans

Mandatory Workplace Requirements

There are no mandatory workplace requirements associated with units packaged in this qualification.

Qualification Mapping Information

Previous Code and Title	Equivalence	Comments
RII30920 Certificate III in Civil Construction	Equivalent	Supersedes and is equivalent.

Links

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

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