



Australian Government

Department of Education, Employment and Workplace Relations

RII40609 Certificate IV in Civil Construction Operations

Release: 2

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Modification History

Not applicable.

Description

This qualification reflects the role of specialist civil construction personnel who perform technical specialist tasks. They perform tasks involving a broad range of varied activities most of which are complex and non-routine. They are responsible for applying the site work instructions and practices to ensure the quantity and quality of their outputs and contribute to the development of technical solutions for non-routine problems.

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"> • provide clear and direct feedback • listen carefully to instructions and information • read and interpret project plans and safety signs • calculate basic weights, distances and volumes • complete accurate work plans, technical reports, risk assessments, etc • negotiate solutions to customer and workplace based issues • negotiate project details with clients • network with other professionals working in the same field • adjust communication style to meet the needs of people with diverse backgrounds
Teamwork	<ul style="list-style-type: none"> • plan and lead team performance and operations • coordinate project activities and timelines with clients • 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 • provide feedback and advice to staff • participate in site-wide planning and coordination activities
Problem-solving	<ul style="list-style-type: none"> • re-allocate staff and resources in response to changing weather, site conditions and priorities • work with staff to solve problems and coordinate team members' responsibilities and activities • work cooperatively with clients to resolve contract and operational issues • participate in ongoing review and adjustment of operations against performance indicators and project milestones
Initiative and enterprise	<ul style="list-style-type: none"> • act independently to identify potential improvements to working practice and conditions • identify and take steps to resolve risks in the workplace • encourage the exploration and application of innovative approaches to improve on operational performance
Planning and organising	<ul style="list-style-type: none"> • manage and coordinate time and priorities for self and team • identify and obtain appropriate personnel and resources for work

	<ul style="list-style-type: none">• ensure that risks are assessed and appropriate emergency plans are in place• ensure that project planning incorporates the possibility of adapting to future changes
Self-management	<ul style="list-style-type: none">• take responsibility for ensuring team targets and goals are achieved• understand the standard of work expected at the work site• proactively manage team performance• develop trust and confidence in staff and customers
Learning	<ul style="list-style-type: none">• be willing to learn new ways of working• seek information to improve performance from people and workplace documents like policies, procedures etc• understand equipment characteristics, technical capabilities, limitations and procedures• participate in and, where appropriate, lead change processes• work with staff to create learning and development plans• prepare and lead formal or informal training sessions
Technology	<ul style="list-style-type: none">• apply a range of basic IT skills in monitoring and reporting on systems• operate equipment safely and according to manufacturer and workplace guidelines• use communications technology appropriate to the workplace (email, mobile, radio, etc)• use computer technology to monitor and communicate project status• use IT to create documents and maintain records of work activities

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 twelve (12) units of competency made up of:

- four (4) Core units, and
- eight (8) elective units of which:
 - at least four (4) from the Group A electives listed below
 - at least two (2) must come from the Group B listed below
 - up to one (1) unit may come from this, or any other Training Package or accredited course.

Units of competency chosen must

- be relevant to the competency requirements for the job function
- reflect the competency profile for the occupation at the enterprise level
- in the case of accredited course units of competency, not duplicate in part or in whole any unit from a Training Package.

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

Core units of competency	
<i>Unit code</i>	<i>Unit title</i>
RIIENV402A	Implement and monitor environmental policies
BSBOHS407A	Monitor a safe workplace
RIIQUA401A	Apply a quality management system on site
RIIRIS301B	Apply risk management processes
Group A electives	
<i>Unit code</i>	<i>Unit title</i>
RIICBS401B	Apply the principles for the asphalt paving and compaction
RIICBS402B	Apply the principles for the application of bituminous sprayed treatment
RIICBS403B	Apply the principles for the application of polymer modified binder
RIICBS404B	Apply the principles for the selection and use of bituminous emulsion
RIICBS405A	Apply the principles for the application of slurry surfacing
RIICBS406A	Apply the principles of pavement profiling using a profiler

RIICBS407A	Apply the principles for the manufacture and delivery of hot mix asphalt
RIICBS408A	Apply the principles for the manufacture of cold mix
RIICBS409A	Apply the principles for the manufacture of polymer modified binder
RIICBS410A	Apply the principles for the manufacture of bituminous emulsion
RIICBS411A	Apply the principles for the manufacture of slurry surfacing
RIICRC401A	Apply the principles of flexible pavement construction
RIICRC402A	Apply the principles of rigid pavement construction
RIICRC403A	Apply the principles of the stabilisation of materials
RIICRC404A	Inspect and report on pavement condition
RIICRC405A	Carry out pavement condition measurement
RIICRC406B	Apply the principles of pavement maintenance
RIICWD525B	Select pavement surfacing
RIICWM402A	Supervise civil works contractors
RIIDML401A	Apply the principles of demolitions
LGAWORK401A	Develop works maintenance schedule
LGAWORK402A	Prepare for operational works
LGAWORK403A	Manage civil plant and resources
LGACOM401A	Administer contracts
LGACOM402A	Arrange contracts
LGACOM409A	Prepare tender documentation
LGACOM410A	Prepare response to tenders
BSBPMG408A	Apply contract and procurement procedures
MSL953001A	Receive and prepare samples for testing

MSL974001A	Prepare, standardise and use solutions
PMLTEST403B	Assist with geotechnical site investigations
MSL974003A	Perform chemical tests and procedures
MSL974005A	Perform physical tests
MSL974010A	Perform mechanical tests
MSL973001A	Perform basic tests
MSL973002A	Prepare working solutions
MSL973006A	Prepare trial batches for evaluation
MSL924001A	Process and interpret data
RIICPL401A	Apply the principles for the installation of underground service using open excavation
RIICTT401A	Apply the principles for the installation of underground services using trenchless technology
RIICTC401A	Apply the principles of tunnel construction
RIICSG401A	Apply the principles of civil concrete structures construction
RIICSG402A	Apply the principles of civil steel structures construction
RIICSG403A	Apply the principles of civil timber structures construction
RIICSG404A	Apply the principles of civil masonry, crib and gabion structure construction
RIICSG405A	Carry out inspections of civil structures
RIICSG406A	Apply principles of maintenance of civil structures
RIIMEX403A	Apply the principles of canal construction
RIIMPO402A	Apply the principles of earthworks construction
RIIBLA301A	Conduct surface shotfiring operations
Group B electives	
<i>Unit code</i>	<i>Unit title</i>
BSBMGT402A	Implement operational plan

BSBMGT403A	Implement continuous improvement
RIICCR401A	Develop and maintain positive community relations
RIICOM301B	Communicate information
RIIGOV401B	Apply, monitor and report on compliance systems