Australian Government

RII41421 Certificate IV in Civil Infrastructure Asset Management

Release 2

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Modification History

Release	Comments
Release 2	This version first released with the RII Resources and Infrastructure Industry Training Package Version 8.0. Omitted Packaging Rules added to qualification.
Release 1	This version first released with the RII Resources and Infrastructure Industry Training Package Version 8.0. Newly created qualification.

Qualification Description

This qualification reflects the role of individuals working in public or private organisations that conduct civil infrastructure asset management tasks. It applies to individuals who utilise methods, tools and materials to conduct data collection in support of the management and maintenance of civil infrastructure assets in one or many asset classes.

These individuals apply judgement to a broad range of tasks related to asset management. They apply factual, technical and theoretical knowledge to develop technical solutions to non-routine problems. These individuals have limited responsibility for the quantity and quality of the output of others in a team and independent contractors.

Licensing, legislative, regulatory or certification considerations

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

Entry Requirements

Nil.

Packaging Rules

Total number of units = 12

6 core units plus

6 elective units, of which:

- at least one (1) must be from Group A
- of the remaining electives, up to five (5) electives may be from any elective group

- up to two (2) may be from elsewhere in this or any other currently endorsed Certificate IV or above training package qualification or accredited course.

Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.

Core units

BSBCRT411 Apply critical thinking to work practices

BSBXBD401 Capture and store big data

ICTDAT402 Clean and verify data

RIICAM409 Manage civil infrastructure datasets

RIICAM410 Maintain asset inventories

TLIL4059 Implement asset management systems

Elective units

Group A – Asset-specific condition assessment

RIICAM401 Conduct a condition assessment of road pavements

RIICAM402 Conduct a condition assessment of roadside infrastructure

RIICAM403 Conduct a condition assessment of stormwater drainage

RIICAM404 Conduct a condition assessment of civil structures

RIICAM405 Conduct a condition assessment of civil foundations

RIICAM406 Conduct a condition assessment of water and sewerage mains

RIICAM407 Conduct a condition assessment of underground services

RIICAM408 Conduct a condition assessment of open spaces

Group B – Asset management

LGAPLA005 Protect heritage and cultural assets

NWPNET037 Inspect sewer or stormwater assets

PUAMAN002 Administer allocation of resources

PUAMAN008 Manage physical resources*

RIICWM401E Supervise civil works

RIICWM402E Supervise civil works contractors

RIIFIA401E Manage financial records

TLIP5036 Manage assets

TLIW5002 Manage rail assets and interfaces

Group C – Data collection, management and analysis

BSBXBD402 Test big data samples

BSBXBD403 Analyse big data

BSBXBD404 Use big data for operational decision making

BSBXBD405 Develop procedures for managing big data

BSBXBD406 Present big data insights

BSBXBD407 Protect big data integrity

BSBXBD408 Implement and review procedures for managing big data

ICTDAT401 Evaluate organisational compliance with data ethics legislation

ICTDBS414 Complete database backup and restore

ICTDBS418 Monitor and administer databases

RIICAM501 Analyse and interpret civil infrastructure asset datasets

RIICAM502 Make decisions using civil infrastructure asset data

Group D – Interpersonal skills

BSBINS402 Coordinate workplace information systems

BSBLDR413 Lead effective workplace relationships

BSBLDR411 Demonstrate leadership in the workplace

BSBPEF402 Develop personal work priorities

BSBSTR401 Promote innovation in team environments

BSBSTR402 Implement continuous improvement

BSBXTW401 Lead and facilitate a team

RIILAT401E Provide leadership in the supervision of Indigenous employees

RIILAT402E Provide leadership in the supervision of diverse work teams

*Note the following prerequisite unit requirements.

Unit in this qualification	Prerequisite unit(S)
PUAMAN008 Manage physical resources	PUAMAN002 Administer allocation of resources

Qualification Mapping Information

No equivalent qualification. New qualification.

Links

Companion Volume Implementation Guide is found on VETNet: -
https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272