

RII60509 Advanced Diploma of Civil Construction Design

Release 3



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Modification History

Not applicable.

Description

The Advanced Diploma of Civil Construction Design reflects the role of senior civil works designers or para-professional designers who support professional engineers. They perform tasks that are broad, specialised, complex and technical and include strategic areas and initiating activities. They are responsible for the design of complex projects to ensure the implementation of the client's site requirements and are required to demonstrate self-directed application of theoretical and technical knowledge and initiate solutions to technical problems or management requirements.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

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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	 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
Teamwork	 network with other professionals working in the same field 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 provide feedback and advice to staff lead site-wide planning and coordination activities
Problem-solving	 re-allocate staff and resources in response to changing weather, site conditions and priorities manage staff to solve problems and coordinate individual responsibilities and activities work cooperatively with clients to resolve contract and operational issues manage the ongoing review and adjustment of operations against performance indicators and project milestones
Initiative and enterprise	 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	 manage and coordinate time and priorities for self and team identify and obtain appropriate personnel and resources for work ensure that risks are assessed and appropriate emergency plans are in place ensure that project planning incorporates the possibility of adapting to future changes

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Self-management	 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	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
	• lead change and continuous improvement processes
	manage learning and development plans
	 prepare and lead formal or informal training sessions
Technology	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)
	 computer technology is used to monitor and communicate project status
	use IT to create documents and maintain records of work activities

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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 made up of:

- five (5) Core units
- seven (7) elective units made up of:
- at least four (4) units from the Group A General Management units listed
- at least one (1) unit from the Group B Design units listed
- up to two (2) units, from this or any other Training Package or accredited course at any level

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

The units chosen to satisfy the Advanced Diploma of Civil Construction Design must be additional to the Units of Competency achieved to satisfy the Diploma of Civil Construction Design.

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		
Unit code	Unit title	
BSBOHS607B	Advise on application of safe design principles to control OHS risk	
BSBPMG608A	Direct risk management of a project program	
BSBWOR502B	Ensure team effectiveness	
RIICWD601A	Manage the civil works design process	
RIIQUA601A	Establish and maintain a quality system	
Group A Elective Units – General Management		
Unit code	Unit title	
BSBMGT608B	Manage innovation and continuous improvement	
BSBMGT617A	Develop and implement a business plan	
BSBPMG601A	Direct the integration of projects	
BSBPMG602A	Direct the scope of a project program	

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BSBPMG603A	Direct time management of a project program	
BSBPMG604A	Direct cost management of a project program	
BSBPMG605A	Direct quality management of a project program	
BSBPMG606A	Direct human resource management of a project program	
BSBPMG607A	Direct communications management of a project program	
BSBPMG609A	Direct procurement and contracting for a project program	
BSBSMB405B	Monitor and manage small business operations	
RIIBEF601A	Conduct business negotiations	
RIIBEF604A	Conduct feasibility study	
Group B Elective Units – Design Units		
Unit code	Unit title	
RIICWD507A	Prepare detailed geotechnical design	
RIICWD509A	Prepare detailed design of urban roads	
RIICWD510A	Prepare detailed design of busways	
RIICWD512A	Prepare detailed design of motorways and interchanges	
RIICWD520A	Prepare detailed design of rigid pavements	
RIICWD526A	Prepare detailed traffic analysis	
RIICWD528A	Prepare detailed design of traffic management systems	
RIICWD532A	Prepare detailed design of tunnels	
RIICWD533A	Prepare detailed design of civil concrete structures	
RIICWD534A	Prepare detailed design of civil steel structures	
RIICWD535A	Prepare detailed design of civil timber structures	
RIICWD536A	Prepare detailed design of civil masonry, crib and gabion structures	

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