



ALPHA COLLEGE
OF AUSTRALIA

RII50520 Diploma of Civil Construction Design

CRICOS Course Code 120592F



OVERVIEW OF COURSE

This qualification reflects the role of individuals working as designers or design paraprofessionals who support professional engineers. They perform tasks involving a high level of autonomy and requiring the application of significant judgement in planning and determining the selection of equipment/roles/techniques for themselves and others. They are required to develop site specific work designs to ensure the implementation of the client's site requirements. They demonstrate the application of a broad range of technical, managerial, coordination and planning skills.

Licensing, legislative, regulatory or certification considerations

Licensing, legislative and certification requirements that apply to this qualification can vary between states, territories, and industry sectors. Users must check requirements with relevant body before applying the qualification.

WHO SHOULD APPLY FOR THIS COURSE AND WHY?

This course is ideal for students who want to build a career in Australia's fast-growing civil construction and infrastructure sector. It is designed for those who are interested in combining technical knowledge with practical design skills to support the planning and delivery of projects such as roads, bridges, subdivisions, drainage systems, and other civil works. You should consider this course if you are:

- Looking to start a professional pathway toward becoming a Civil Construction Designer, Engineering Associate, or Drafting Technician.
- Interested in using design software and engineering principles to create technical drawings and project documentation.
- Seeking a qualification that provides a stepping stone to the RII60520 Advanced Diploma of Civil Construction Design, higher-level studies in engineering, or potential recognition with Engineers Australia.
- Wanting to enter an industry with strong job demand in Australia, supported by national infrastructure investment and a shortage of skilled civil designers.
- Excited by the opportunity to work on projects that directly shape communities and contribute to Australia's future growth.

This qualification is suitable for both recent school leavers and those with some prior construction, drafting, or engineering experience who wish to formalise their skills and progress to higher responsibilities.

Quick Facts

Course Duration



Total of 78 weeks
Study: 60 weeks | Break: 18 weeks

Study Load



Full-time
20 hours per week / 6 terms

Delivery Mode



Blended
(Face to Face + Online)

Job Outcomes



Civil Construction Designer
Engineering Associate
Drafting Technician

Entry Requirements

- Must be 18 years of age or older at the time of course commencement
- Completion of Year 12 or equivalent education
- Provide proof of English language proficiency (IELTS 6.0 or equivalent)
- Successfully complete the Alpha Language, Literacy and Numeracy (LLN) test
- Successfully complete the Alpha Digital Literacy test to demonstrate confidence in using the
- A pre-enrolment interview may be required

Study Pathways

It offers a direct pathway into the RII60520 Advanced Diploma of Civil Construction Design, supporting progression toward professional recognition with Engineers Australia and higher-level qualifications in engineering.



Course Structure

The following units are included in this course, and all are required for the award of the qualification. If you successfully complete some but not all units, you will be awarded with a Statement of Attainment. There are 20 units of competency in total as listed below:

Code	Title	Core / Elective
BSBTWK502	Manage team effectiveness	●
BSBSTR601	Manage innovation and continuous improvement	●
BSBPEF501	Manage personal and professional development	●
MEM30031A	Operate computer-aided design (CAD) system to produce basic drawing elements	●
MEM30033A*	Use computer-aided design (CAD) to create and display 3-D models	●
RIICWD501E	Prepare detailed design of foundations	●
RIICWD533E	Prepare detailed design of civil concrete structures	●
RIICWD530E	Prepare detailed design of surface drainage	●
RIICWD531E	Prepare detailed design of subsurface drainage	●
RIICWD534E	Prepare detailed design of civil steel structures	●
MEM30012A	Apply mathematical techniques in a manufacturing engineering or related environment	●
MEM23004A	Apply technical mathematics	●
MEM30005A*	Calculate force systems within simple beam structures	●
MEM30006A	Calculate stresses in simple structures	●
MSL924003**	Process and interpret data	●
MSL925004	Analyse data and report results	●
RIILAT402E	Provide leadership in the supervision of diverse work teams	●
MEM23109	Apply engineering mechanics principles	●
CPPCOM4001	Manage own work, professional development and ethical behaviour	●
CPPBDN6106	Produce building information modelling for building design projects	●

An asterisk (* or **) next to the unit code indicates that there are prerequisite requirements which must be met when packaging the qualification. Please refer to the prerequisite requirements available on the website. [↗](#)

Training and Assessment Methods

Training methods include lectures, interactive discussions, case studies, group projects, live demonstrations, and guided practical design activities. In this Diploma, the focus shifts to the application of engineering and drafting principles to civil construction projects. Students will learn how to use industry-standard software to prepare detailed design documentation, conduct site investigations, apply environmental and compliance requirements, and coordinate technical project activities.

Assessment methods include:

- Knowledge questions
- Practical demonstrations and observations
- Projects and case studies
- Portfolio of evidence (where applicable)

Students will work through simulated civil construction project scenarios – including subdivisions, roads, and drainage systems – applying their knowledge in a safe and structured environment before transferring these skills to real-world industry settings.



Course Credit

You can apply for recognition of existing qualifications or skills, knowledge, and experience (credit transfer or recognition of prior learning) as per the information included in our International Student Handbook, which is available at www.alpha.edu.au.

Please note that although we are required to offer you RPL, it would not be expected as an international student that you would pursue this opportunity as most likely you would not have relevant workplace experience and existing skills and knowledge.

If you are granted course credit, this will affect your course fees as well as the duration of your course. We will advise you in writing of changes to fees or course duration as a result of the credit. You will also be issued with a new Confirmation of Enrolment.