



ACKNOWLEDGE
EDUCATION

Advanced Diploma of Civil Construction Design

Shape Tomorrow's Infrastructure — Build Your Career Today!

This qualification equips you to work as a senior civil works designer or para-professional, supporting engineers in designing and constructing infrastructure projects. You will master broad, specialized, and technical tasks, applying theoretical knowledge to solve complex design and management challenges.

Gain expertise in advanced 2D and 3D software and become job-ready in just 1.5 years with the Diploma of Civil Construction Design (RII50520), followed by six months of specialized training for the Advanced Diploma.

Course code	RII60520
CRICOS	105230B
Intakes	January, April, July, September
Course length	2 years
Campuses	Melbourne, Sydney, Perth, Brisbane
Study mode	Full-time (2-3 days a week)



Industry Endorsements

Our Civil Construction Design courses are industry-endorsed and designed in consultation with experts to ensure relevance and job-readiness for students.



Course Structure

To receive this qualification, students must complete 22 units listed below.

Units	
BSBTWK502	Manage team effectiveness
BSBPMG531	Manage project time
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
MEM30032A	Produce basic engineering drawings
RIICWD501E	Prepare detailed design of foundations
RIICWD511E	Prepare detailed design of sub-divisions
RIICWD509E	Prepare detailed design of urban roads
BSBPMG632	Manage program risk
RIICWD530E	Prepare detailed design of surface drainage
RIICWD533E	Prepare detailed design of civil concrete structures
RIICWD534E	Prepare detailed design of civil steel structures
RIICWD535E	Prepare detailed design of civil timber structures
MEM23007A	Apply calculus to engineering tasks
MEM30005A	Calculate force systems within simple beam structures
MEM23004A	Apply technical mathematics
MEM30012A	Apply mathematical techniques in a manufacturing engineering or related environment
BSBWHS616	Apply safe design principles to control WHS risks
CPCCOM2001	Read and interpret plans and specifications
BSBPMG537	Manage project procurement
RIICWD601E	Manage civil works design process
RIQUA601E	Establish and maintain a quality system

Pathways

On successful completion of AE's Diploma of Civil Construction Design or Advanced Diploma of Civil Construction Design (Diploma Pathway), you are eligible for direct entry into the second year of the Bachelor of Construction Project Management degree with credit for 8 out of the 24 units of study.



Requirements

Domestic Students

- Entry by interview
- Pre-requisite: Diploma of Civil Construction Design (R1150520)

International Students

To apply for the course, international students must:

- Obtain the pre-requisite Diploma of Civil Construction Design (R1150520)
- Have completed Year 12 or equivalent qualification
- Be at least 18 years old
- Demonstrate English language proficiency equivalent to IELTS 5.5

Why Study with AE?

- Clear Pathways to Bachelor's Degrees
- Practical Units Supporting Beginners
- CDR Workshops for Professional Accreditation
- Highly Qualified Trainers, Led by Industry Expert
Dr. Pejman Sabet, Head of Department

Course Outcomes

Occupational titles for graduates with this qualification may include:

- Civil Engineering Draftsperson
- Civil Engineering Design Draftsperson
- Civil Engineering Technician



Dr. Pejman Sabet

Head of Department
Civil Construction Design

With a BSc (2004), MSc (2013), and PhD (2020) in Civil Engineering and Construction management — earned in Malaysia and Australia — Pejman brings over a decade of industry and academic experience. Formerly involved as a teaching academic in both civil engineering and construction management courses at Curtin university and Engineering Institute of Technology. Pejman is a professional member of Engineers Australia and now leads our department. Under his guidance, students gain the skills, knowledge, and confidence to excel.



Ingrid Santos Custodio

Advanced Diploma of Civil
Construction Design graduate

With a Civil Engineer mother and an Architect father, Ingrid always aspired to a career blending both fields. Drafting became her dynamic bridge between them. After her studies, Ingrid secured a position as a Civil Engineering Draftsperson at GRAF Australia, a plastic manufacturing company in Henderson, WA. GRAF Australia innovates in sustainable water solutions, capturing, treating, and repurposing water.

