ACKNOWLEDGE
EDUCATION

Diploma and Advanced Diploma of Civil Construction Design

Complete 2-Year Civil Construction Design Pathway

Acknowledge Education's Civil Construction Design pathway combines the **Diploma of Civil Construction Design (RII50520)** and the **Advanced Diploma of Civil Construction Design (RII60520)** into a structured two-year study journey.

You begin by developing strong foundational drafting, mathematics and design skills. As you progress, you advance into complex civil works design, coordination and professional responsibility aligned with industry practice.

Study Mode	On-campus, 2.5 days per week
Campuses	Melbourne, Sydney, Perth
Intakes	January, April, July, September

Keeping the Course Aligned with Industry Needs

Both qualifications within this pathway are aligned with nationally recognised training standards and reflect current practices in the civil construction and infrastructure sector.

Throughout the pathway, you develop the capability to apply engineering principles to increasingly complex projects. You will strengthen your skills in civil works design processes, quality systems, risk management and safe design principles, while learning to operate effectively within multidisciplinary project teams.

Why Choose the Diploma + Advanced Diploma Pathway?

This pathway reflects how civil construction design capability develops in real-world projects.

Across the two-year pathway, you will develop skills in:

Engineering mathematics and mechanics

Civil and structural design principles

Computer-aided design (CAD) and 3D modelling

Building Information Modelling (BIM)

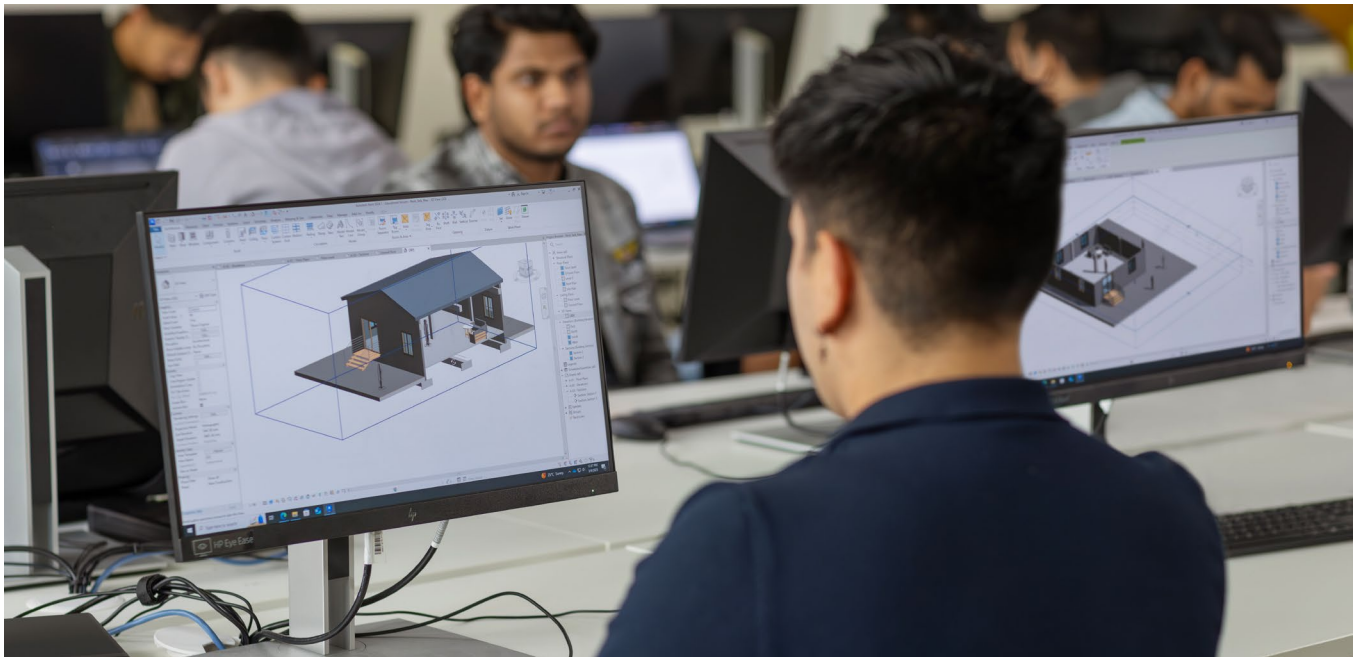
Technical problem-solving and data interpretation

Professional, ethical and workplace practice

Managing civil works design processes

Pathway at a Glance

	Diploma of Civil Construction Design	**Advanced Diploma of Civil Construction Design**
Course Code	RII50520	RII60520
CRICOS Code	108711E	105230B
AQF Level	5	6
Duration	15 months	9 months (2 years total pathway)
Number of Units	20 units	12 units
Study Mode	On-campus (2.5 days/week)	On-campus (2.5 days/week)
Focus	Foundational civil design	Advanced design & coordination
Design Level	Basic to intermediate	Complex civil works
Software	2D/3D CAD & BIM	Advanced CAD coordination & complex design modelling
Role Preparation	Civil design paraprofessional	Senior design paraprofessional
Entry – Domestic	• Interview • Year 12 or equivalent	• Interview • Pre-requisite: Diploma (RII50520)
Entry – International	• Year 12 equivalent • 18+ years • IELTS 5.5 (or equivalent)	• Pre-requisite: Diploma (RII50520) • 18+ years • IELTS 5.5 (or equivalent)



What You Will Study Across the Pathway

Capability Area	Diploma (AQF 5)	Advanced Diploma (AQF 6)
Design & Drafting	2D/3D modelling & BIM	Advanced civil & structural design, coordination & modelling
Maths & Calculations	Technical maths, calculus, engineering calculations	Advanced calculations for complex civil designs
Engineering Principles	Mechanics, force systems, stress calculations	Structural & geotechnical design principles
Data & Analysis	Process, interpret and analyse technical data	Advanced analysis, validation and compliance checking
Professional Practice	Ethics, teamwork, managing own work	Leadership, coordination and professional responsibility
Design Management	Introduction to risk and design tasks	Managing civil works design, quality & safe design

Note: Unit selection may vary by intake and campus in accordance with training package packaging rules. For the full and current list of units, please refer to the official course pages on the Acknowledge Education website.

Career Outcomes

Upon successful completion of the Diploma and Advanced Diploma pathway, you may pursue roles such as:

- Civil engineering draftsperson
- Civil engineering design draftsperson
- Civil engineering technician

Further Study Pathways

After completing the Advanced Diploma of Civil Construction Design at Acknowledge E ducation, you may gain direct entry into the second year of the Bachelor of Construction Project Management, with credit for 8 out of 24 units of study.

Diploma of Civil Construction Design (15 months) to Advanced Diploma of Civil Construction Design (9 months) to Bachelor of Construction Project Management (2 years)

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 a regional WA. GRAF Australia innovates in sustainable water solutions, capturing, treating, and repurposing water.

Elective Units Endorsed for Industry Standards

The **RII50520 Diploma of Civil Construction Design** includes elective units selected to align with Engineers Australia's recommended study plan. These electives enhance professional capability in engineering mechanics, BIM modelling and ethical practice:

- MEM23109 – Apply engineering mechanics principles
- CPPBDN6106 – Produce building information modelling for building design projects
- CPPCOM4001 – Manage own work, professional development and ethical behaviour

*For the most up-to-date unit information, visit: www.acknowledgeeducation.edu.au/courses/diploma-of-civil-construction-design