

DUAL DIPLOMA

MEM50222

Diploma of Engineering- Technical (Drafting)

CRICOS CODE 112013H

R1150520

Diploma of Civil Construction Design

CRICOS CODE 105246E

JOB PROSPECTS

MEM50222 - Computer Aided Design (CAD) Drafter, Mechanical Engineer and mid-level positions in engineering

R1150520 - Civil Engineering Draftsperson, Engineering Designer and Structural Engineering Technician

DURATION

104 weeks

ENTRY REQUIREMENTS

- be 18 years or over
- have evidence of study at high school or higher education
- have evidence of English proficiency at Upper Intermediate or higher
- pass the Site Institute reading and algebra placement test



Looking to pursue a career in engineering and civil construction design? Our dual diploma program in Engineering-Technical and Civil Construction Design will provide you with the skills and knowledge necessary to succeed in various industries.

WHY THIS COURSE?

Dual Diploma Our program provides you with two diplomas, increasing your chances of employment and allowing you to pursue diverse career options.

Innovative Curriculum Our program integrates the latest technologies and industry practices in civil construction design to equip you with the most relevant and up-to-date skills and knowledge needed in the industry. You'll be prepared to tackle real-world challenges and contribute to the advancement of the field.

Focus on Technical Drawing and 3D Modelling Learn to create detailed plans and drawings for structures and installations using computer-aided drafting systems such as AutoCAD, 12D and SpaceGass. Develop practical skills in 3D modeling software and 3D printing.

Construction Project Management Gain valuable experience managing civil drafting, and design projects. Learn project management skills such as job costing, scheduling and quality management to ensure project success.

Inclusive Learning Environment Our college is committed to creating a supportive and inclusive environment for all students. We believe in embracing diversity and encouraging creativity and innovation.

UNITS OF COMPETENCY

DIPLOMA OF ENGINEERING-TECHNICAL

Apply mathematical techniques in a manufacturing, engineering or related environment MEM30012

Apply technical mathematics MEM23004

Calculate force systems within simple beam structures MEM30005

Create 3-D solid models using computer-aided design (CAD) system MEM09210

Detail ancillary steelwork MEM09228

Detail standardised structural connections MEM09225

Detail structural steel members MEM09226

Interact with computing technology MEM16008

Interpret design specifications for structural steel detailing MEM09223

Interpret technical drawing MEM09002

Manage self in the engineering environment MEM22002

Operate computer-aided design (CAD) system to produce basic drawing elements MEM30031

Organise and communicate information MEM16006

Participate in environmentally sustainable work practices MSMENV272

Perform computations MEM12024

Perform engineering measurements MEM12023

Produce basic engineering drawings MEM30032

Read and interpret technical engineering drawings MEM09229

Use computer-aided design (CAD) to create and display 3-D models MEM30033

Work safely and effectively in manufacturing and engineering MEM13015

DIPLOMA OF CIVIL CONSTRUCTION DESIGN

Apply mathematical techniques in a manufacturing engineering or related environment MEM30012

Apply technical mathematics MEM23004

Calculate force systems within simple beam structures MEM30005

Detail ancillary steelwork MEM09228

Detail standardised structural connections MEM09225

Detail structural steel members MEM09226

Inspect and report on pavement condition RIICRC404E

Manage project quality BSBPMG532

Manage project risk BSBPMG536

Manage project time BSBPMG531

Operate computer-aided design (CAD) system to produce basic drawing elements MEM30031

Prepare detailed design of civil concrete structures RIICWD533E

Prepare detailed design of civil steel structures RIICWD534E

Prepare detailed design of flexible pavements RIICWD521E

Prepare detailed design of foundations RIICWD501E

Prepare detailed design of rural roads RIICWD508E

Prepare detailed design of subsurface drainage RIICWD531E

Prepare detailed design of surface drainage RIICWD530E

Produce basic engineering drawings MEM30032

Use computer-aided design (CAD) to create and display 3-D models MEM30033



RECOGNITION OF PRIOR LEARNING

Recognition of Prior Learning (RPL) assesses your competency from workplace experience, formal training, or expertise to determine if you meet the requirements for a unit of study. If you believe you are eligible for RPL, indicate your intent to apply when enrolling, as it may shorten your course and adjust your Confirmation of Enrolment (CoE) accordingly.

COURSE CREDIT

Our nationally endorsed qualifications include ASQA-approved Units of Competency. You need not repeat any units already assessed as Competent, unless mandated by regulations or licensing. When applying, submit evidence of completed units from other RTOs to receive credit.

WHY CHOOSE US?

Comprehensive Curriculum Our program covers all aspects of technical engineering and civil construction design, ensuring that you have a solid foundation in both the practical and theoretical aspects of the field.

Industry Connections We partner with leading companies to provide our students with hands-on experience and job opportunities. Gain access to valuable resources and networking opportunities to jumpstart your career.

State-of-the-Art Facilities Our modern, well-equipped workshops offer the perfect learning environment for mastering the latest tools and techniques. Experience first-hand the technology shaping the industry.

Experienced Instructors Learn from the best! Our instructors are seasoned professionals with years of industry experience. They're passionate about sharing their knowledge and helping you succeed.

**INDUSTRY CONNECTED.
FUTURE FOCUSED.**

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