



DUAL DIPLOMA

DIPLOMA OF ENGINEERING-TECHNICAL

MEM50212

CRICOS COURSE CODE 091732K

COURSE OVERVIEW

Advanced engineering and manufacturing technologies form the basis of future innovation in industry. Workforce skills in these areas are key to increasing efficiency, productivity and competitiveness in modern manufacturing. The Diploma of Engineering - Technical provides you with the practical skills in organising and analysing information, interacting with 3D modelling software (Inventor) and 3D printing.

JOB PROSPECTS (MEM50212)

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

DURATION

- 104 weeks

INTAKES 2021

- January 25
- April 19
- July 12
- October 4

INTAKES 2022

- January 24
- April 18
- July 11
- October 3

DIPLOMA OF CIVIL CONSTRUCTION DESIGN

RII50520

CRICOS COURSE CODE 105246E

COURSE OVERVIEW (RII50520)

Learn skills in technical drawing using computer aided drafting systems such as AutoCAD, Revit, 12D, Tekla and SpaceGass. You will be drafting plans and creating detailed drawings for structures and installations, and construction projects such as roads, railways, bridges. You will also oversee the construction of your plans, providing experience in the practical skills required to work competently as a civil engineering draftsman.

JOB PROSPECTS (RII50520)

Civil Engineering Draftsperson, Engineering Designer and Structural Engineering Technician

ENTRY REQUIREMENTS

- Students must be at least 18 years old.
- High School or Higher Education
- English language requirements: IELTS 5.5 (with no individual band less than 5.0), Upper Intermediate, Site Institute pre-admission test level 4 or equivalent.

RECOGNITION OF PRIOR LEARNING

Recognition of Prior Learning (RPL) is available for each Unit of Competency, based on your relevant workplace experience, formal training, or other expertise. RPL is a process that assesses your competency—acquired through formal and informal learning—to determine if you meet the requirements for a unit of study.

When applying for this course, please indicate whether you intend to apply for RPL. Please note that if RPL or course credit is granted, the course length will be reduced, and a Confirmation of Enrolment (CoE) will be issued only for the reduced duration of the course.

PATHWAYS

Completion of a Site Institute diploma can provide you with a pathway into a Bachelor's degree at leading Australian universities.

This means you can cut down the amount of time and money you need to complete your degree, or in some cases, even enrol straight into the second year of your university course.

DIPLOMA OF ENGINEERING-TECHNICAL MEM50212 UNITS OF COMPETENCY (20)

- Apply basic engineering design concepts MEM09011B
- Apply engineering mechanics principles MEM23109A
- Apply mathematical techniques in a manufacturing, engineering or related environment MEM30012A
- Apply technical mathematics MEM23004A
- Calculate force systems within simple beam structures MEM30005A
- Detail ancillary steelwork MSATCS504A
- Detail standardised structural connections MSATCS501A
- Detail structural steel members MSATCS502A
- Interact with computing technology MEM16008A
- Interpret technical drawing MEM09002
- Manage project quality BSBPMG532
- Manage project risk BSBPMG536
- Manage project time BSBPMG531
- Operate computer-aided design (CAD) systems to produce basic drawing elements MEM30031A
- Organise and communicate information MEM16006
- Participate in environmentally sustainable work practices MSAENV272
- Produce basic engineering drawings MEM30032A
- Produce basic engineering detail drawings MEM09204A
- Select common engineering materials MEM30007A
- Use computer-aided design (CAD) to create and display 3-D models MEM30033A

COURSE CREDIT

Our nationally endorsed qualifications comprise of Units of Competency approved by the governing authority, ASQA. You are not required to repeat any Unit of Competency for which you have already been assessed as Competent, unless a regulatory requirement or licence condition (including an industry licensing scheme) requires this.

DIPLOMA OF CIVIL CONSTRUCTION DESIGN RI150520 UNITS OF COMPETENCY (20)

- Apply mathematical techniques in a manufacturing engineering or related environment MEM30012A
- Apply technical mathematics MEM23004A
- Calculate force systems within simple beam structures MEM30005A
- Detail ancillary steelwork MSATCS504A
- Detail standardised structural connections MSATCS501A
- Detail structural steel members MSATCS502A
- 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 MEM30031A
- 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 MEM30032A

*Information current at time of printing. Units may be subject to change.

August 2021