

RII50520 DIPLOMA OF CIVIL CONSTRUCTION DESIGN

CRICOS 118439M

Course Overview

This course is the starting point of the Civil Construction Design stream of courses and prepares students with the knowledge and skills for a paraprofessional role supporting professional engineers and/or for further learning at Advanced or Bachelor level.

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

Teaching sessions are trainer-led in group sizes of up to 30 participants. The teaching program is undertaken using a planned schedule in accordance with national standards.

Course Features

- 20 units in total
- 4 terms per year
- 1.5 years course
- 60 weeks of learning + 18 weeks holiday
- 20 hours per week face to face learning plus online and self learning

Career Opportunities



Course Units

Elective Units x 20

Elective from Group A

- BSBPEF501 Manage personal and professional development
- BSBSTR601 Manage innovation and continuous improvement
- BSBTWK502 Manage team effectiveness

Elective from Group B

- MEM30031 Operate computer-aided design (CAD) system to produce basic drawing elements
- MEM30033 Use CAD to create and display 3-D models

Elective from Group C

- RIICWD531E Prepare detailed design of subsurface drainage
- RIICWD536E Prepare detailed design of civil masonry, crib and gabion structures
- RIICWD505E Prepare detailed design of landscaping
- RIICWD530E Prepare detailed design of surface drainage
- RIICWD518E Prepare detailed design of open car parks

Elective from Group D

- MEM23004 Apply technical mathematics
- MEM30012 Apply mathematical techniques in a manufacturing engineering or related environment
- RIIMPO402D Apply the principles of earthworks construction
- RIILAT402E Provide leadership in the supervision of diverse work teams
- RIICRC404E Inspect and report on pavement condition
- MEM30005 Calculate force systems within simple beam structures
- MEM30006 Calculate stresses in simple structures

Other Electives

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