



Civil Structural Design, Model and Drafting Skill Set

State ID: GAA34

About this course

Take your career in Building Information Modeling (BIM) to the next level with analytical and practical design skills based around construction industry standards and software tools with a course from South Metropolitan TAFE.

Discover how to use tools like Revit BIM and Robot Structure analysis to construct and analyse CAD models to Australian design standards. Use your designs to develop detailed plans for workflow management and collaboration across disciplines.

Upon completion of the course a student will be able to demonstrate they have learned:

- Knowledge of structural requirements, local building and construction standards, codes and practices
- Structural mechanics: loads, analysis, materials, and design of members such as columns, beams, trusses and portal frames
- To model structural elements from basic beams, columns and walls through to more real-life complex examples in addition to exploring a variety of functions such as structural connections and advanced steel
- Simulating various load conditions to determine the strength and stiffness of structure by reporting component stress, strain and deformations
- Drafting, scheduling and the production of drawings and specifications for building project

This is part of: RII50515 - Diploma of Civil Construction Design, a nationally recognised qualification.

There are prerequisite requirements which are covered as recognition of prior learning (RPL)

Overview

Semester 2, 2019

Munster Campus - Jul 2019, Oct 2019

 When: **Semester 2, 2019**

 How: **Part Time**

 Fees: **Non-concession** \$1,859.89

Units

Core

Unit Title	National ID
Develop and collaborate on building information models for small-scale building design projects	CPPBDN5013A
Apply technical mathematics	MEM23004A
Apply engineering mechanics principles	MEM23109A
Use computer aided drafting systems to produce basic engineering drawings	MEM30001A
Produce basic engineering graphics	MEM30002A

Study pathway

Further study opportunities:

This short course is 1 of 3 evening skillsets offered. Completion of all 3 skillsets will achieve Diploma of Civil Construction Design qualification.