



Diploma of Civil Construction Design

National ID: RII50520 | State ID:BGK7

The Diploma of Civil Construction Design prepares you for working as a designer or design professional who supports professional engineers. They perform tasks involving a high level of autonomy and requiring the application of significant judgement in planning and determining the selection of equipment/roles/techniques for themselves and others. They are required to develop site specific work designs to ensure the implementation of the client's site requirements. They demonstrate the application of a broad range of technical, managerial, coordination and planning skills.

The course content has been designed and selected as recommended and supported by industry to ensure graduates have a strong understanding of Australian standards, business practices, national codes and guidelines.

Gain these skills:

- Schedule and estimation of construction tasks
- Calculate foundation and footing requirements
- Manage a project schedule, cost and risk
- Knowledge of structural requirements, local building and construction standards, codes and practices
- Structural mechanics: loads, analysis, materials, and design of building members such as columns, beams, trusses and portal frames
- Simulating various load conditions to determine the strength and stiffness of structure by reporting component stress, strain and deformations
- Create detail drafting, technical specifications, schedules, and bill of quantities for a building project
- Building Information Modelling (BIM) implementation through planned coordination to deliver specific project outcomes, time and cost savings
- Detailed designs of both rural and urban roads, surface and subsurface drainage
- Investigate location of underground services and their impact on projects
- Calculating, sizing and selecting infrastructure components
- Geometric designs to optimize operational efficiency and road safety
- Analyse, interpret and apply Australian, MRWA and Austroads standards and guides
- Stormwater capture methods



Your qualification prepares you for roles such as:

Civil Engineering Draftsperson and Civil Engineering Technician

Further Study Option(s)

Advanced Diploma of Civil Construction Design

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Course Overview



Location	Duration	Competitive	Selection criteria
Munster	Three semesters	No	No selection criteria