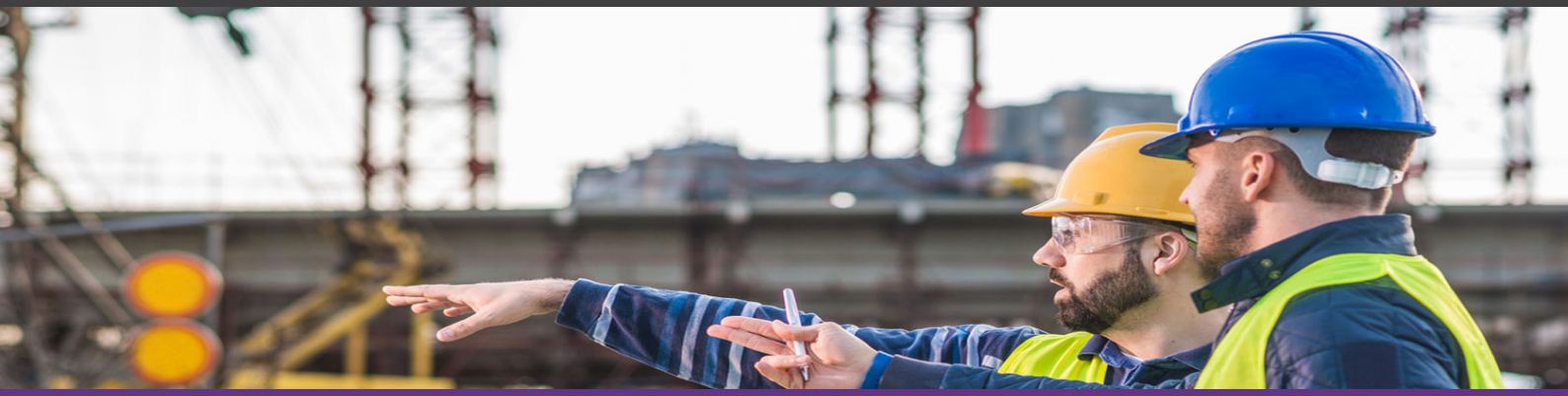

Civil Infrastructure Design

State ID: GAB86

About this course

Learn how to prepare detailed designs of **roads** and **drainage** by adopting the simulated role of a **technical officer** and **designer**.

Tackle project scenarios including **greenfield** and **brownfield sites**, creating **road** and **drainage designs** to meet job briefs and complying with Australian standards and guides.

Produce engineering designs by using AutoCAD and AutoCAD Civil 3D engineering software programmes to enhance and provide students with skills and knowledge for rapid creation and output of civil site design projects.

Gain these skills:

- Detailed designs of both rural and urban roads, surface/pavements and subsurface drainage
- Investigate location of underground services and their impact on projects
- Implementation of traffic control devices to improve road safety for all road users
- Intersection treatments
- Pavement types, layers, materials and thicknesses.
- Calculating, sizing and selecting infrastructure components
- Geometric designs
- Analyse, interpret and apply Australian, MRWA and Austroads standards and guides
- Stormwater capture methods

JOBS & SKILLS WA

RTO code: 52787
Printed: 22/10/2020

This course requires approximately 6 to 8 hours a week online study using our a Blackboard Learning Management System coupled with an additional 3 hours a week expected attendance at campus for workshops.This course is aimed at those who may be interested in gaining the necessary skills needed for entry into an Engineering career, that are looking at upskilling in their current position or from post trade, prospective entrepreneurs, that are looking at gaining formal qualification or those that would just like to learn how to use the software for their own personal projects.

- RIICWD508D Prepare detailed design of rural roads
- RIICWD509D Prepare detailed design of urban roads
- RIICWD528D Prepare detailed design of traffic management systems
- RIICWD530D Prepare detailed design of surface drainage
- RIICWD531D Prepare detailed design of subsurface drainage

Upcoming dates

Commencing 7 October, Term 4, 2020

Course Cost

non concession- $1823.30

Please note, the allocated three hours per week is only for the workshop and lectures and the remaining study has to be done using our LMS system i.e. Backboard. Blackboard is where lecturers will populate their learning content, assignments and lesson plans. It is an expectation that students spend 6 to 8 hours of study time every week outside class hours/skillset.

Overview

This course may be offered with a blended, flexible delivery model to enable social distancing measures to be undertaken during the COVID-19 pandemic. This approach may include a mix of online and classroom based delivery, as well as practical and work experience placements. Lecturers will provide any specific instructions if your training delivery style needs to change.

All year round, 2021

Munster - Part Time-Self Paced-On-campus

When: **All year round**

How: **Part Time**

Units

Core

National ID	Unit Title
RIICWD508D	Prepare detailed design of rural roads
RIICWD509D	Prepare detailed design of urban roads
RIICWD528D	Prepare detailed design of traffic management systems
RIICWD530D	Prepare detailed design of surface drainage
RIICWD531D	Prepare detailed design of subsurface drainage

Study pathway

Civil Infrastructure Design

Diploma of Civil Construction Design