



FACULTY OF CONSTRUCTION



NATIONAL CODE: RII50520

DIPLOMA OF CIVIL CONSTRUCTION DESIGN

Step into a rewarding career as a Civil Construction Designer, where you'll master design techniques, project management, and site-specific planning to lead innovative infrastructure projects and thrive in the dynamic civil construction industry.

CAMPUSES

ONLINE DELIVERY

OVERVIEW



INTAKES
Monthly



DURATION
52 Weeks



INDUSTRY PLACEMENT



INTERNATIONAL STUDENTS
No



CRICOS CODE:



CONTACT HOURS
10



Blended Learning



Online

DIPLOMA OF CIVIL CONSTRUCTION DESIGN

The RII50520 Diploma of Civil Construction Design equips you with essential technical, design, and project management skills to thrive in the civil construction industry. Combining online learning, workshops, seminars, site visits, and simulated workplace projects, this blended learning approach ensures you gain both theoretical knowledge and hands-on experience, preparing you to become a skilled Civil Construction Designer. You'll develop expertise in creating site-specific designs, applying advanced CAD software, and delivering practical infrastructure solutions. The course covers key areas such as engineering mechanics, design principles, and project coordination, equipping you to support engineers and lead design processes across diverse projects like road design, drainage, and civil structures. With the guidance of qualified trainers, you will apply your knowledge in real-world contexts, preparing you to contribute to large-scale infrastructure projects and make a meaningful impact in the evolving civil construction field.

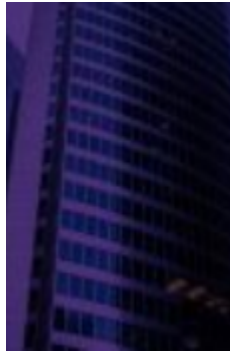
Career Outcomes

CIVIL CONSTRUCTION DESIGNER

What You'll Learn

- Mathematical problem-solving skills
- Engineering mechanics and stress analysis
- CAD design and 3D modelling
- Spatial data capture and interpretation Civil structure design (foundations, roads, drainage)
- Professional ethics and development
- Information management systems
- Project procurement and continuous improvement





Nathaniel
From our trainer Rudy to the fantastic online resources, super engaging lectures and the outstanding guest speakers – plus the 24/7 student support – there's literally no better place to study. It's incredible.

INTAKE DATES

TBA - Expressions of Interest

TUITION FEES (FEE LABEL TEST)

Course Name	Course Duration	Fee Label Test	Campus Availability	Intakes
Diploma of Civil Construction Design	52 Weeks	\$0		Monthly

ENTRY REQUIREMENTS

AGE	GRADE	IELTS
18	Australian Year 12 equivalent	None

- **AGE**
Minimum age of 18 years or turning 18 years old prior to commencement of the course
- **EDUCATION & EXPERIENCE REQUIREMENTS**
- **ENGLISH LANGUAGE**
There is no english language requirement for this course.
- **REQUIRED IDENTIFICATION**
Photo ID and evidence of citizenship



■ COMPUTER SKILLS & EQUIPMENT

Student Equipment and Computer Skills Required Students on this course require computer access for learning purposes and to complete course assessments. As such, students must have beginner/intermediate computer skills in programmes such as Microsoft Word, Excel, PowerPoint and Outlook, and know how to use the internet to access information. Standard intermediate knowledge of Microsoft Office 365 is desirable. Additionally, students are encouraged to develop basic skills for an efficient study environment, including the ability to install, update and maintain internet browsers and software (e.g., security updates), connect laptops and mobile devices to wireless networks (e.g., campus, library), use a webcam and headset/microphone and utilise cloud storage (e.g., OneDrive). Students MUST have the following equipment prior to enrolling with Rhodes Business School Hardware Requirements: • Desktop or Laptop Specifications: o Processor: 2.5–2.9 GHz o Memory: 8 GB o Display Card: 1 GB GPU o Disk Space: 100 GB o Operating System: o Microsoft® Windows® 8.1 or Windows 10 version 1809 or above o Apple® macOS® Monterey v12, Big Sur v11, or Catalina v10.15 • Additional Hardware: o Webcam: Built-in or USB webcam o Audio: Suitable input and output for online classes o Headset: For clear audio communication Software Requirements: • Web Browser: Microsoft Edge, Firefox, Google Chrome, or Safari • Microsoft Office 365: Word, Excel, PowerPoint, Outlook, Teams • MS Teams: Downloadable for free • CAD Software: Access to the College's CAD system (if applicable) • Spatial Data Management Software: Arcgis As required • ArcGIS: o Processor: Minimum 2 cores, recommended 4+ cores o Memory: Minimum 8 GB, recommended 16 GB o Display Card: Minimum 1 GB GPU, recommended 4 GB GPU o Disk Space: Minimum 32 GB, recommended 64 GB or more o Operating System: Windows 10 or 11 (64-bit) with the latest updates Internet Requirements: • Reliable Internet Connection: Essential for using software like AutoCAD, OneNote, and Bluebeam for comment review processes. Specific Software Requirements: • AutoCAD: o Processor: 2.5–2.9 GHz (recommended 3+ GHz) o Memory: 8 GB (recommended 32 GB) o Display Card: 2 GB GPU (recommended 8 GB GPU) o Disk Space: 10 GB (suggested SSD) o Operating System: Windows 10 version 1809 or above, macOS Big Sur or above OneNote: • Compatible with all supported versions of Windows and macOS Bluebeam: • Processor: 1 GHz (recommended Intel i5 Dual Core or better) • Memory: 8 GB • Display: 1024 x 768 resolution • Disk Space: 5 GB

ONLINE DELIVERY COURSE TRAINERS

Peter NG

Peter Ng is a highly qualified Civil Construction Trainer and Chartered Engineer with over 18 years of experience in geotechnical engineering, tunnelling, and large-scale infrastructure projects across Australia and Hong Kong.

With a strong background in project design, excavation, tunnelling, and slope maintenance, Peter has contributed to major projects such as the WestConnex Stage Three B and Western Harbour Tunnel in Sydney, as well as the West Gate Tunnel Project in Melbourne. His work with leading organisations including John Holland and Meinhardt (C&S) Limited reflects his commitment to engineering excellence and innovation.

Peter holds a Master of Construction Law from the University of Melbourne, a Master of Science in Applied Geoscience, and a Bachelor of Science (Hons) in Earth Sciences from the University of Hong Kong. He is also a qualified VET educator with a Certificate IV in Training and Assessment and a Certificate IV in Work Health and Safety.

As part of the Rhodes Business School, Peter is dedicated to developing the next generation of civil construction professionals. His teaching philosophy emphasises hands-on learning, critical thinking, and real-world application. He believes in guiding students to “dig deep” — fostering perseverance, problem-solving, and professional confidence in every learning journey.

ONLINE DELIVERY & FACILITIES

YOUR CAMPUS

SESSION LOCATIONS

