



Overview

Modern civil engineering professionals often require an extensive understanding of construction management and civil engineering work processes due to the strategic benefits it can bring to both individuals and project teams. Develop much sought-after **project management skills** in civil construction, reflecting the skills, knowledge and understanding required to be an effective manager in the Civil Engineering Construction Industry, whether in **micro, small, medium or large operations**. You can further enhance your skills by choosing a specialization for your last semester.

You can further enhance your skills by choosing a specialization for your last semester. The two choices include:

ELECTIVE 1 Specialization in Road Construction

- Manage labour intensive construction projects
- Understand and apply geo-technical construction methods
- Manage drainage construction activities
- Manage road construction activities
- Demonstrate an understanding of road construction methods

ELECTIVE 2 Specialization in Building Construction

- Manage labour intensive construction projects
- Understand and apply geo-technical construction methods
- Manage drainage construction activities
- Manage structural construction activities
- Understand and apply structural construction methods

Features & Benefits

- Additional Short Courses like "Essentials of Project Management" and "PRINCE 2 Foundational" are accredited by PMI (Project Management International) and is added to this course to further employment success.



- Choose between two specializations for you're your last semester, Road & Rail Construction OR Structural Construction
- In demand skills within the project management industry was added to improve job readiness such as **Microsoft Access, Word, Excel, PowerPoint** and more.



- We utilise industry leading software including **AutoCAD** ensuring that you are educated not only in theory but also the industry used CAD software with a student license valid for three years.



- Through our **myWay** learning methodology, a unique and modern approach to blended learning we deliver our programmes via flexible study method options including class-based sessions and blended learning for online student.
- For **online students**, we ensure that you are **supported by technology and people** throughout your academic journey. We focus on a blended learning approach, combining online **Classrooms**, at home exercises, activities and project-based assignments bundled with fully developed video lectures, all managed by our student learning platform.
- Get a free **Office 365 Education A1 license**, valid for the duration of your studies.



- Job placement assistance through our industry network and online recruitment portal, exclusively available to **AIE graduates**. Visit www.recruitgraduates.co.za for more.



Duration

Full-Time

- **24 months, 271 credits** (+/- 12hrs / week)
- Learning is hybrid (combination of online & contact time)

Part-Time & Online

- **Part-Time** = 24 months, 271 credits (1 x 2hrs / Week & 3hrs every 2nd Saturday)
- Learning is hybrid (combination of online & contact time)
- Learning is hybrid (combination of online & contact time)
- **Online**= 24 Months, 271 credits (1 x 2hrs / Week)
- Learning is online ONLY
- Credits are obtained through a combination of live virtual classes, pre-recorded video lectures and project-based tasks.

**Sessions will be grouped together to lower cost of traveling, however, in some cases classes may not follow this convention and schedules are subject to change*

Admission Requirements

- Grade 12 with English as your first language & Mathematical Literacy (min 40%) & Science (Physics & Chemistry min 40%)

What you get

This qualification is designed to provide the student with multiple certificates and qualifications, both locally and internationally recognised by industry for maximum employability

On completion the student will earn:

- **National Diploma:** Management of Civil Engineering Construction Processes NQF, SAQA ID: 23683
- **International Certificate:** AutoCAD Essentials
- **Specialized Certificates:** Certified in Project Management from Learnfast

Curriculum

Year 1: Semester 1

- Mathematics Literacy
- Computer Literacy
- Site Surveying and Drawing Theory
- Structures and Materials
- Drawing Applications • Construction Administration
- Resource Management
- Construction Business

Year 2: Semester 1

- Finance in Construction
- Construction Site Management
- Managing Construction Processes
- Geotechnical Construction Methods
- Managing Drainage Construction Activities

Semester 2 (Only choose 1)

Elective 1; Specialization in Road & Rail construction

- Demonstrate an understanding of road construction methods
- Understand and apply railway construction methods
- Manage drainage construction activities
- Manage geo-technical construction activities
- Manage labour intensive construction projects
- Manage railway construction activities
- Manage road construction activities

OR

Elective 2; Specialization in Structural construction

- Manage structural construction activities
- Understand and apply drainage construction methods
- Understand and apply geo-technical construction methods
- Manage drainage construction activities
- Understand and apply structural construction methods
- Develop and promote labour intensive construction strategies

Modules covered:

- Preparing for an interview;
- Conduct and Behaviour During an Interview;
- Communication Skills;
- Understanding Legislation;
- Preparing the CV that Everybody Wants to See;
- Using Social Media;
- Starting the Job seeking Journey
- Registering on our recruitment portal

Project Management Fundamental (PMI) Final Integrated Project

- Plan and execute your project.
- Produce Data Packs, (drawings, registers, WBS's)
- Produce digital prototypes on VR, 3D renders, animations.

Workplace Preparation and Portfolio Compilation

Career Options

- Construction Project Manager
- Site Project Manager
- Building Project Manager
- Site Foreman
- Construction Foreman
- Civil Site Supervisor/Manager

Study Kit

Your study kit is included in your fees and will contain:



myAIE Student Portal

- **Free WIFI** (On-Campus only)
- **Autodesk student license** valid for 1 year.
- **Adobe student license** valid for 1 year.
- Stationery kit that includes:
- AIE Notepad
- AIE Pencil Bag (15cm)
- AIE Ruler
- AIE Pencil Case
- Electronic Study Guides
- **Orientation kit including:** Student Card, Welcome Letter, Getting Started Guide.
- Access to our myAIE student portal and student support team via phone, email and tickets.
- VR Goggles



Mode of Delivery

- Full Time
- Part Time
- Online

Salaries & Skills

SALARIES (ANNUAL)



* All statistics are derived from www.payscale.com