



Overview

The **National Certificate: Architectural Technology NQF5** provides an introduction into the Architectural Profession and its role within the building Industry. This program provides a strong focus on developing **entry-level skills** for employment within the Architectural Profession/s. This course helps broaden access to the Architectural Profession. The learner is provided with the technical skills, competencies and academic knowledge required to work in the Architecture industry as an **'Architectural Draughtsperson'**. Architectural Draughtspersons play a supportive role in the development of buildings and construction sites. The main activities are the production of drawings, detailing, presentation of drawings, and model making, elementary planning and design work, and liaison with relevant role players. Entrepreneurial skills and experience enable the professional architectural draughtsperson to competently handle small to medium size **work under supervision**.

Features & Benefits

Included in the full-time fees are a total of **4 practical modules**. Practicals are hybrid sessions: a mix of online lectures and onsite workshops at our Midrand and Cape Town campuses. The practicals will cover the following: **Workshop Safety Module, Land Survey, Plumbing** (drainage and water reticulation) and **Electrical Installation**.

- This qualification will consist of **integrated project-based assessments** to provide a holistic learning experience.
- An introduction to **Virtual and Augmented Reality** technology is incorporated into this program.
- Students get free access to the MakersLab with **3D Printing, CNC Machining and Lazer Cutting** facilities.



- We utilise industry-leading **Design & Draughting** software including **AutoCAD, Autodesk Revit Architecture, Autodesk 3DS Max** ensuring that students are equipped with industry used CAD software.



- You will be provided with an A-Grade study kit, that includes all the tools you will need to use in both academic and professional use.

- Get a free **Office 365 Education A1 license**, valid for the duration of your studies.



- Students get access to our online recruitment portal, exclusively available to **AIE graduates**. Visit www.recruitgraduates.co.za for more.




AIE Virtual Reality Lab

This programme incorporates the use of Virtual Reality and may include topics such as: Introduction to Virtual and Augmented Reality using your Google's VR Headset, Introduction to the 3D Environment using Virtual Reality, Modelling for Virtual Reality, Preparing your 3D Data for Virtualization and Full Immersion, Design Validation through Virtual Reality, Presenting your data in Virtual Reality.



Makerslab Re-imagine designers of the future

Design • Learn • Create

This programme incorporates the use of the MakersLab. A space where learning gets its hands dirty and the best teacher will take place. It will act as a platform for design & prototyping of products specifically related to space-making.

Castings & Moulding • 3D Printing • Virtual Reality • Lazer Cutting • CNC Milling

Duration

Full-Time

- **Full Time, Contact** (Hybrid) Learning, 12 Months, 120 Credits
- **Full Time, Online** Learning, 12 Months, 120 Credits
- Classes conducted from Monday to Friday ± 12 hours/week

Part-Time

- **Part Time, Flexi** Online Learning, ± 12 Months, 120 credits
- Classes conducted after hours over 2-3 sessions/week (on selected Saturdays)

** Class structures are subject to change without notification.*

Articulation Options

On successful completion of this qualification, you can articulate into the following:

- Direct access into the National Diploma: Architectural Technology NQF6 at second year level.
- Entry into an appropriate qualification at a Higher Education institution, is dependent on the minimum entry requirements of that institution and at their own discretion on a case by case basis.

Mode of Delivery

- Full Time
- Part Time
- Online

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 Certificate:** Architectural Technology, NQF Level 5, SAQA ID: 48734, 120
- **Autodesk Software Certificates:** AutoCAD Essentials, Autodesk Revit Architecture, Autodesk 3D Studio Max
- **Signed Practical logbook for students who complete the Practicals:** and Survey, Plumbing & Electrical Wiring (only included in the Full Time Fees)

Curriculum

Theory Modules:

- Architectural Design
- Construction Technology & Detailing
- Architectural Representation & Drafting
- History & Theory of Architecture
- Communication in Architecture
- Entrepreneurship

Practical Modules (1 week each):

- Workshop Safety
- Land Surveying
- Plumbing (drainage and water reticulation)
- Electrical Installation

Software Modules:

- AutoCAD Essentials



- Autodesk Revit Essentials



- Adobe: Photoshop, Illustrator & InDesign



- Microsoft Office: Word, Excel & PowerPoint through a self paced assembly



- 3DS Max through a self paced assembly



On Exit: Workplace Preparation and Portfolio Compilation through a self paced Module

You will only attend the WPM on your exit year. The Workplace Preparation Module is designed for students to acquire the requisite skills and attributes to help you integrate into the world of work more easily. Move from the world of education to the world of work with essential and/or specialized skills that will improve your employment (or self-employment) prospects. This program is done for all students and consist of:

Topics 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

Salaries & Skills



* All statistics are derived from www.payscale.com

Career Options

- Draughting Office Manager
- Spatial Planner
- 3D Modeller & Visualization
- Architectural Draughtsperson

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.
- USB 32GB with all required software applications
- Stationery kit that includes:
 - AIE Pen
 - AIE Notepad
 - AIE Pencil Bag (30cm)
 - UNI Pin Fine Liner (0.05mm, 0.2mm, 0.3mm, 0.5mm, 0.8mm)
 - A4 Bleedproof Sketchpad - 50 Sheets
 - A3 Bleedproof Sketchpad - 50 Sheets
 - A3 Tracing paper - 30 Sheets
 - Monte marte pencils 12 pack/ Staedler traditional sketch pencil
 - Derwent piece Artist Pencils 12 pack
 - A2 Cutting Mat
 - NT Cutter
 - Steel Ruler - 30cm
 - Scale Ruler
 - A2 Portfolio Bag - Shoulder Strap no rings
- Electronic Study Guides
- **Orientation kit including:** Student Card, Welcome Letter, Getting Started Guide.
- VR Goggles



Admission Requirements

- Grade 12 (Competency in the English language & Mathematical Literacy) OR
- NQF4 Drawing Office Practice OR
- N4/5 Multi-Disciplinary Draughting National Certificate, MDDOP OR
- Engineering National Certificate N3