

Advanced Course in Construction Engineering Design and Draughting

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**A F R I C A N
A C A D E M Y**

Name: Advanced Course in Construction Engineering Design & Draughting (Please note that application for accreditation as a Diploma is still in the process with Council for Higher Education)

Programme: Engineering Design & Draughting

Part-time/Full-time:

Description: The Programme has been designed to enable you to reach the following outcomes:

Engineering Draughting and Design

Provides more practice involving a broader range of skills appropriate for a person to be able to design, budget, manage and supervise a team on a project in construction, manufacturing, process industries etc.

LEVEL 1 (1st year)

Admission requirements

Successful completion of Matriculation or equivalent.

Plus

- 2D software studies AutoCAD N5
- Mechanical Orientation N4
- Building Draughting N5
- Mechanical Draughting N4
- Electrical Draughting N5
- Structural Steel Detailing N5
- Pictorial Draughting N4
- General Draughting
- Piping Draughting
- 3D software studies Inventor

The above comprises as the first year of study

LEVEL2 (2nd year)

Admission requirements: Full pass on level 1

Semester 1

- Engineering Mathematics
- Applied Mechanics
- Construction Methods

- 3D software studies (Revit and Microstation v8i)

Semester 2

- Strength of materials
 - Construction Materials (Theory) and (Practical)
 - Introduction to Architectural
 - 3D software studies with Solidworks & Microstation everything 3D
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LEVEL 3 (3rd year)

Admission requirements: Full pass on level 2

Semester 1

- Business Management
- Reinforced Concrete and Masonry Design
- Water Engineering (Theory) and (Practical)
- Engineering Practical 1 (P1)
- Engineering Health and Safety

Semester 2

- Structural Detailing (for steel and timber)
 - Transportation Engineering
 - Surveying (Theory) and (Practical)
 - Engineering Practical 2 (P2)
 - Building Project Design
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Duration: 3 Years Full Diploma

Course Fees: R16 500.00 per semester.

R 3 000 deposit and Monthly instalments of R 2 700

Additional Costs: Books, kits, etc.

City & Guilds certificate – R 500

No textbooks, workshop materials or tools are included.

Certification

On successful completion of the full programme, the student will receive a City and Guilds certificate.



City & Guilds is a globally recognized and respected awarding organization and serves as a benchmark for educational quality.

Why attend

City and Guilds award certificates to people who have shown they have mastered skills that are based on excellent standards set by industry. City and Guilds international provides a particular service to customers around the world who need high-quality assessments and certification.

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