

# ADVANCED CONSTRUCTION ENGINEERING DESIGN AND DRAUGHTING

African Academy  
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## A F R I C A N A C A D E M Y

**Name:** Construction Engineering Design & Draughting (Course endorsed by C & G)

**Programme:** Engineering Design & Draughting

**Part-time/Full-time:**

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

To provide you with 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.

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### 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

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### 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

**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 certificate from the African Academy and from C & G. The cost for the certificate from C & G is R500

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The African Academy is:



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.

**Disclaimer**

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