

# Advanced Course in Plant 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 Plant Engineering Design and Draughting (Please note that application for accreditation as a Diploma is still in the process with Council for Higher Education)

**Programme:** Engineering Design and Draughting

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

**Description:** This 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 and 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 1st year of study

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### LEVEL2 (2nd year)

**Admission requirements: Full pass on level 1**

#### Semester 1

- Engineering Mathematics
- Applied Mechanics
- Piping Design
- 3D software studies (Revit and Microstation V8i)

## Semester 2

- Strength of Materials (civil and structural)
  - Mechanical Design
  - Electrical Instrumentation and control
  - 3D software studies continues ( Solidworks & Microstation everything 3D)
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## LEVEL 3 (3rd year)

**Admission requirements: Full pass on level 2**

### Semester 1

- Business Management
- Plant Installation and Maintenance
- Thermodynamics
- Engineering Practical 1 (P1)
- Engineering Health and Safety

### Semester 2

- Fluid Mechanics
- Plant Project Design
- Plant Technology
- Engineering Practical 2 (P2)
- Theory of Machines

**Duration:** 3 Years Full Diploma

**Course Fees: R16 500 per semester.**

R 3 000 deposit and 5 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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