

ADVANCED PLANT ENGINEERING DESIGN AND DRAUGHTING

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

Name: Plant Engineering Design and Draughting (Course endorsed by C & G)

Programme: Engineering Design and Draughting

Part-time/Full-time:

Description: This 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 and 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 1st year of study

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

Course Fees: R16 500 per semester.

R 3 000 deposit and 5 monthly installments 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 a certificate from C & G.

The cost for the certificate from C & G is R500.

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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