

NATIONAL CERTIFICATE ENGINEERING AND RELATED DESIGN



Elangeni College

For Further Education and Training

A new Vocational study option at Public FET Colleges

Public FET Colleges now offer a new, exciting, modern and relevant range of vocational programmes known as the National Certificate (Vocational). These vocational programmes are high skills, high quality and high knowledge programmes introduced at FET Colleges nationally in 2007 and are intended to directly respond to the priority skills demands of the modern economy.

What is the National Certificate (Engineering and Related Design) Qualification?

The National Certificate (Engineering and Related Design) is a new qualification at each of Levels 2, 3 and 4 of the NQF. This qualification is designed to provide both the theory and practice of Engineering and Related Design. The practical component of study may be offered in a real workplace environment or in a simulated experience workplace environment. It will provide students with an opportunity to experience work situations during the period of study.

What are the minimum entry requirements to the qualification?

For entry into the National Certificate (Engineering and Related Design) at NQF Level 2, you require:

- A year end school report for Grade 9 or higher; or
- An NQF Level 1 qualification; or
- An approved bridging programme designed for the specific purpose to access NQF Level 2; or
- A Recognition of Prior Learning (RPL) assessment to meet the basic requirements for access to NQF Level 2.

How long is the Qualification?

The National Certificate (Engineering and Related Design) qualification is a full year programme at each of the NQF levels of study. A student is issued with a certificate on the successful completion of each level of study, that is Level 2, Level 3 and Level 4.

Which subjects make up a National Certificate (Engineering and Related Design)?

In order to obtain a National Certificate (Engineering and Related Design), a student is required to take a total of 7 subjects. These include 3 fundamental subjects and 4 vocational subjects.

Clermont Campus: (Details to be announced) Kwamashu Campus: F5 Malandela Road, Kwamashu, Tel: 031 - 503 9708 Mpumalanga: 280

Shezi Road, Mpumalanga, Tel: 031 771 2568 Ndwedwe Campus: P100 Main Road, Ndwedwe, Tel: 032 - 532 1519

Ntuzuma Campus: Ithendele Drive, Ntuzuma, Tel: 031 - 509 1924 Ohlange Campus: (Details to be announced)

Phinetown Campus: 38 Bamboo Lane, Phinetown 3600, Tel: 031 - 702 3260 Qadi Campus: Zulu Reserve Road, Botha's Hill, Tel: 031 - 777 1742

Central Office: Tel: 031-716 6700 Fax: 031-6777 E-mail: info@efet.co.za Website: www.efet.co.za

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Which are the fundamental subjects?

The 3 fundamental subjects are:

- Language - which must be the language of teaching and learning;
- Mathematics or Mathematical Literacy; and
- Life Orientation

What are the Vocational subjects in Engineering and Related Design?

The vocational subjects in Engineering and Related Design include:

- Engineering Fundamentals
- Engineering Practise & Maintenance
- Engineering Processes & Technology
- Engineering Technology
- Materials Technology
- Professional Engineering Practise
- Engineering Systems, Graphics & Design
- Applied Engineering Technology
- Fitting & Turning
- Engineering Fabrication
- Automotive Repair & Maintenance
- Physical Science

These subjects are offered at each of the different NQF Levels of study in the National Certificate (Engineering and Related Design) qualification.

What vocational activities would this give you access to?

The holder of the National Certificate (Engineering and Related Design) will be able to:

- Participate in the designing and constructing of buildings
- Take part in the manufacturing of tools, machines, engines
- Participate in the planning and building of roads, bridges, canals and dams
- Take part in the operation and maintenance of machines
- Plan and design mines and mining facilities
- Participate in the design of shaft and ventilation systems

What career opportunities do I have after completing the National Certificate (Engineering and Related Design)?

The National Certificate (Engineering and Related Design) provides an opportunity to access careers in any of the sectors listed below.

- Chemical Engineering
- Civil Engineering
- Coal Technology
- Geology
- Mechanical Engineering
- Metallurgical Engineering
- Mining Metallurgy
- Petroleum Engineering
- Car Manufacturing
- Architectural Technology
- Welding
- Tool Making
- Building Management
- Automotive Repairing
- Motor Mechanics
- Panel Beating

PLEASE NOTE: Each Campus has pre-selected subjects. Please enquire with the Campus.

Courses are campus-specific and subject to student enrolments.

Elangeni College is the first educational institution in the country to achieve simultaneous dual SABS certification. An ISO 9001:2000 and OSHAS 18001:2007 Certified Organisation



All information correct at time of print. E&OE.

