



# NATIONAL CERTIFICATE

# Engineering & Related Design

The National Certificate (Engineering & Related Design) is a new qualification at each of Levels 2, 3 and 4 of the NQF. This qualification is designed to provide both theoretical and practical training. The practical component may be offered in a real workplace environment or a simulated one.

## Minimum Requirements:

- 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.

## **Duration:**

One 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.

#### Vocational activities:

The holder of an National Certificate in Engineering & Related Design would be able to:

- Participate in the designing and constructing of building;
- Take part in the manufacturing of tools, machines, engines;
- Participate in the planning and building of roads, bridges, canals, dams;
- Take part in the operation and maintenance of machines;
- Plan and design mines and mining facilities;
- · Extract metallic and non-metallic minerals;
- Participate in the design of shaft and ventialtion systems.



The National Certificate (Engineering & Related Design) provides an opportunity, with further study, to access careers in the following fields:

- Manufacturing and Industrial Engineering;
- Metallurgical and Materials Engineering;
- · Mining Engineering;
- Geological Engineering;
- Aerospace Engineering;
- Tool Making;
- Fitting and Machining.

#### **SUBJECTS**

#### **Fundamental Subjects:**

There are three fundamental subjects which form the basis of each of the NCV qualifications. These are:

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

#### **Vocational Subjects:**

In addition to the three fundamental subjects students are required to complete four vocational subjects:

- · Engineering Fundamentals;
- · Engineering Technology;
- Fitting and Machining;
- Pre-operational Analysis of Engineering Technology.

Umfolozi College Campuses offering NCV Engineering & Related Design from 2007:

Esikhawini Campus Tel: 035 796 5568/76 Fax: 035 796 5530

Mandeni Campus Tel: 032 456 3626 Fax: 032 456 5777

Richtek Campus Tel: 035 902 9500 Fax: 035 789 7011

Sundumbili Campus Tel: 032 454 1407 Fax: 032 454 1602



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