

## Certificate Level 3 in Database Administration

### Programme details:

The Certificate in Database Administration is a one year programme and is a Level 3 programme, at Botho University. There are two semesters in the programme.

The students enrolled in this programme will study the basics of computer activities, design and develop entity relationship diagrams, creating database and tables, querying a database, develop scripts and functions, create restrictions access and modifications through triggers using SQL Server 2012.

They also learn how to create, configure and delete a database using client and administrative tools, examine Oracle net services and perform the server-side, client-side and shared server configuration, create tablespaces and datafiles, create tables and indexes, views and indexes, implement the loading and unloading the data from the external sources using Oracle 12C.

### Core modules:

#### Semester 1

- C3 - FCO - 15: Fundamentals of Computers (20)
- D4 - ESE - 15: English for Skills Employability (20)
- C3 - DBF - 15: Database Fundamentals (20)

#### Semester 2

- C3 - DB1 - 15: Database Administration I (30)
- C3 - DB2 - 15: Database Administration II (30)

### Admissions Criteria

Senior secondary school leaving certificate such as BGCSE, LGCSE or equivalent. Candidates above 25 years with at least 5 years of work experience, of which at least 2 years must be at Level 4 equivalent may be considered under mature entry criteria. CCNA Routing & Switching has four modules designed to provide classroom and laboratory experience in current and emerging networking technology and help students prepare for certification as a Cisco Certified Network Associate (CCNA). The four modules are: CCNA

Routing & Switching 1: Introduction to Networks, CCNA Routing & Switching 2: Switching Essentials, CCNA Routing & Switching 3: Scaling Networks and CCNA Routing & Switching 4: Connecting Networks. The number at the end of the module in parenthesis indicates the credit load of the module. 1 credit is equal to 10 hours of learning (guided, in-class and independent combined); therefore a 15-credit module requires on average 150 hours of learning from the student.

### Core Modules:

- C2 - CR1 - 17: CCNA Routing & Switching 1: Introduction to Networks (15)
- C2 - CR2 - 17: CCNA Routing & Switching 2: Switching Essentials (15)
- C2 - CR3 - 17: CCNA Routing & Switching 3: Scaling Networks (15)
- C2 - CR4 - 17: CCNA Routing & Switching 4: Connecting Networks (15)

### Recommended full-time study path: 1 year

#### Semester 1:

- C2 - CR1 - 17, C2 - CR2 - 17

#### Semester 2:

- C2 - CR3 - 17, C2 - CR4 - 17

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