

Curriculum

National Diploma

Year 1 (full-time)

Applied Building Science 1
Communications 1
Computer Applications 1
Construction Management 1
Construction Technology 1
Quantity Surveying 1
Site Surveying 1

Year 2 (experiential training)

Construction Management 2
Construction Technology 2
Quantity Surveying 2

Year 3 (full-time)

Construction Management 3
Construction Technology 3
Quantity Surveying 3
Construction Accounting 3
Price Analysis & Estimating 3
Structures & Concrete 3

BTech degree

Year 4 (full-time)

Quantity Surveying
Construction Management

MTech degree

Research dissertation

PhD degree

Research thesis



Enquiries

For more information, visit us under 'faculties' at:
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Department of

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Faculty of Engineering, the Built Environment
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Introduction

The Building and Construction Industry is a dynamic industry with many opportunities for self-motivated and dedicated hard working people. The Industry is becoming more technically sophisticated and computerised which has resulted in a growing demand for suitably trained professionals. The environment demands that the professional managers have specialised skills with regard to the latest construction methods and techniques being applied throughout the world. In modern day construction the emphasis is being placed on professional people having the necessary skills to deliver a quality product to the clients. The Department of Building and Human Settlement Development offers the following:

National Diploma: Building

The course deals with the methods, materials and techniques used in the construction industry. The course duration is three years, and the student must also complete at least one year of applicable experiential training in the second year of study. Job opportunities exist with local or national construction / quantity surveying companies where valuable experience may be gained during this period of study.

Admission requirements

Admission Point Score of 25 (Score for Life Orientation excluded).

- ▶ Minimum NSC requirements for diploma entry must be met.
- ▶ English, Afrikaans or isiXhosa (home language or first additional language) on at least level 3 (40-49%).
- ▶ NSC achievement rating of at least 3 (40-49%) for Mathematics or 5 (60-69%) for Mathematical Literacy.
- ▶ Applicants with an admissions point score between 21 and 24 (Score for Life Orientation excluded) may be referred to write the access assessment test before a decision is made on whether or not to admit the applicant to the course.

Recommended NSC subjects:

- ▶ Economic and Business; Science, Accounting, and Civil Technology

Opportunities for further study

After completion of the National Diploma in Building, a candidate may enrol for the following B Tech degrees:

- ▶ BTech: Construction Management
- ▶ BTech: Quantity Surveying

Construction Management

Construction Management entails the planning, organising, leading and controlling of a construction project. It includes the technical, legal, staff, labour and financial functions of management. The construction manager has the task of managing building operations on a site, ensuring that the buildings are constructed according to the plans and specifications provided by the Architect / Engineer, that the correct materials are used and that the workmanship is according to the standard required. Further daily tasks of a construction manager are to liaise with the client, architects, engineers, local authorities, sub-contractors and suppliers.



Quantity Surveying

The quantity surveyor has the choice of being employed in two different branches of quantity surveying:

- ▶ As a professional quantity surveyor employed by a firm of quantity surveyors and looking after the financial interests of the client.
- ▶ As a Building surveyor employed by a contracting firm looking after the financial interests of the contractor.

The quantity surveyor is responsible for the measuring the quantity of material used in a building project, determining and controlling costs, as well as estimating the value of work done at various stages of the contract. Specialised knowledge enables the quantity surveyor to prepare estimates of building costs, prepare tender documents and control all financial matters relating to a building contract.

Job opportunities

Many opportunities exist for qualified construction managers and quantity surveyors in all areas of construction and development. A further aspect of today's Built Environment is the opportunity for entrepreneurs to be self-employed in construction and development.

Professional registration

Building diplomats/graduates qualify for registration with the following bodies:

- ▶ South African Council for Project and Construction Management Professions (SACPCMP)
- ▶ South African Council for the Quantity Surveying Profession (SACQSP)