

Vocational Centre for International Development



**Diploma and Certificate Programme in Building
Construction Technology**

Program Code: BCT

Course Brochure

2017/2018

Course Description

Construction is not just about building sites, it's about building a bigger picture: the planning, coordination, and control of a project from inception to delivery. This practical program incorporates hands-on work and project-based learning. You'll experience many aspects of building projects and understand how these relate to each other. You'll go on site excursions to gain hands-on experience in the field, which will include visits to residential projects and commercial construction projects.

The Building Construction Technology Program, offered at the Vocational Centre for International Development (VCID), prepares students to build and maintain structures in compliance with existing codes and regulations. In this programme, students learn to read blueprints, sketches and specifications for information pertaining dimensions, type of materials required and standards of work. VCID programme on Building Construction Technology capitalizes on gaining experience by working with a variety of hand tools, power tools and construction equipment. Skills learned in the programme include: wood and metal framing, concrete forming, remodeling, and interior and exterior finishing of residential and commercial buildings. The courses emphasize fundamentals and techniques of building construction management.

Programme outcome

In this program, you'll examine the principles, techniques and regulations of the building and construction industry for all types of medium-rise and wide-span buildings. At the end of the course, students would have gained practical knowledge and skills as well as become competent in:

1. Erecting concrete forms for footings, walls, columns and flat works;
2. Framing floors, walls and roofs using wood and steel framing;
3. Installing interior finish components;
4. Installing exterior finish components;
5. Estimating building material requirements;
6. Coordinating construction activities;
7. Performing construction duties effectively.

Programme approach

In the course of this programme, students are expected in their first year to go to an off campus site during some classes. The cost of transportation and off site charges is included in the tuition to facilitate the running of the programme. In the second year, students also take some courses off the campus and participate in building a residential structure from the initial site layout through all the construction phases to the final finish works.

Students will require a Construction Induction Card (CPCCOHS1001A Work Safely in the Construction Industry) to take part in required site visits and or/associated assessment.

Entry requirements

To be eligible for the VCID Diploma in Building Construction Technology, the students must fulfil the following conditions:

1. At least 4 O/L pass including religion and CAP
2. School leavers with existing skills in construction work (attestation of service required)
3. Minimal skill level in Mathematics (a score of 50% or higher on the elementary algebra skill portion of the VCID entry test. In case of failure to meet the required points, students will undertake a compulsory course – Math 101 and 102 concurrently with the semester 1 coursework).
4. A minimal score of 80 in the VCID entry exams for reading comprehension and writing components and a 70 in Listening and Speaking. All potential students must reach the expected bar before admission. In some cases, students may be expected to complete VCID ENG 101/102 concurrently with their semester coursework

Required documents

1. Copies of certificates/diplomas
2. Copy of birth certificate
3. Copy of apprenticeship attestation if required
4. Original receipt of non-re-reimbursable application fee (15,000FCFA)

5. Copy of signed undertaking, obtainable from the centre

This is a gender under represented program and awards bonus points to female applicants at the level of admission.

Career opportunities

The programme prepares students for employment in the construction industry. Completing the Diploma of Building and Construction (Building) gives you a stronger chance of gaining employment in the building industry.

Career opportunities include roles in the following areas:

- Building construction, supervision and management (superintendents, project managers, and assistant, building inspectors)
- Estimating (estimators, plan examiners, and schedulers)
- Purchasing
- Contracts administration.

You may also find employment in other related fields, either on a building site or in a head office environment.

Program Duration: 12 Calendar Months (Theory: 4 months; Practicum: 6 months and VCID Employability Programme: 2 months)

Flexible delivery arrangements (e.g. two days per week) may be made available to students with industry experience.

Course fee and Funding

The full course fee for the complete Diploma Programme is 500,000 FCFA

- All Cameroonians and Permanent Residents aged 21 years and above and are categorized as vulnerable children can enjoy course fee reduction of up to **20%** of the course fee.
- Cameroonians or Permanent Resident employees fully sponsored by SMEs can enjoy course fee funding support of up to **30%** of the course fee under

the **Enhanced Training Support Programme (ETP)** scheme, subject to eligibility criteria and availability of funds.

- Cameroonians aged 40 years and above can enjoy course fee funding of up to **50%** of the course fee under the **Skills For Future Programme (SFP)**, **subject to availability of funds.**
- Cameroonians aged 35 years and above with earnings not more than 100,000 per month can enjoy course fee funding for **25%** of the course fee under the **Workfare Training Support Programme (WTSP)** scheme based on availability of funds.
- Cameroonians aged 25 years old and above are eligible for **Skills Future Credit** which can be used to offset course fees.

Programme structure

To achieve this qualification, the candidate must demonstrate competency in 20 units of the programme (15 core units and 5 elective units).

The elective units may be selected from Groups A and B below as follows:

- A minimum of three elective units must be selected from Group A units below
- One of the five elective units may be selected from another endorsed Training Package or Construction, Plumbing and Sanitary Installation Training Package, provided that the industry context of the qualification is maintained and that the unit is at Diploma level
- Two of the five elective units may be selected from any Certificate programme courses

Courses Outline

Course code	Course title	Course status
BCT200	Principles of OHS risk management	Core
BCT 205	Project Quality Management	Core
BCT207	Project Risk Management	Core
BCT203	Building codes and standards for low rise buildings	Core
BCT208	Preparation of construction contracts	Core
BCT211	Estimation in building and construction projects	Core
BCT209	Structural principles to residential low rise constructions	Core

BCT300	Tender preparation and evaluation	Core
BCT301	Recruiting and inducting construction staff	Core
BCT202	Building codes and standards for medium rise building projects	Core
BCT302	Monitoring costing systems on medium rise building and construction projects	Core
BCT305	Supervisory planning of on-site medium rise building	Core
BCT309	Managing construction work	Core
BCT310	Structural principles for medium rise buildings	Core
BCT320	Reading and interpreting plans and specifications	Core
BCT303	Preparing simple building sketches and drawings	Core
BCT-A1	Supervision and application of quality standards for building and construction materials	A-Elective
BCT-A2	Selecting and managing building and construction contractors	A-Elective
BCT-A3	Application of site surveys and set-out procedures to medium rise building projects	A-Elective
BCT-A4	Legal obligations of a building or construction contractor	A-Elective
BCT-A5	Layout and connection methods in medium rise buildings	A-Elective
BCT-A6	Environmental management practices and processes in building and construction	A-Elective
BCT-A7	Development of professional technical and legal reports on building and construction projects	A-Elective
BCT-A8	workplace policies and procedures for sustainability	A-Elective
BCT-B1	Managing quality customer service	B-Elective
BCT-B2	Managing budgets and financial plans	B-Elective
BCT-B3	Managing rehabilitation or return to work programs	B-Elective
BCT-B4	Building and sustaining an innovative work environment	B-Elective
BCT-B5	Design databases	B-Elective
BCT-B6	Managing people performance	B-Elective
BCT-B7	Developing and managing operational plans	B-Elective

BCT-B8	Conflict resolution and management in construction work	B-Elective
BCT-B9	Conducting asbestos assessment associated with removal	B-Elective
BCT-B10	Work safety in the construction industry	B-Elective

VCID Employability Skill Programme

At the Vocational Centre for International Development, all the students go through a 5 module compulsory employment skill development programme which comprises of the following:

- Effective communication and interpersonal skills
- Team work and group dynamics
- Problem solving techniques
- Managing difficult people
- Enterprise development and entrepreneurship
- Strategic and operational planning
- Self-management
- Basic ICT
- Development of Curriculum Vitae
- Interview techniques

Course capacity: 25 Candidates