Civil Engineering and Building Construction LEVEL 2-4

WHAT SUBJECTS WILL I BE TAKING?

FUNDAMENTAL SUBJECTS

> Language (which must be a language of teaching at Boland College)
> Mathematics/Mathematical Literacy
> Life Orientation

VOCATIONAL SUBJECTS

Level 2

> Construction Planning
> Plant and Equipment
> Materials
> Masonry
> Plumbing

Level 3

> Construction Planning
> Plant and Equipment
> Materials
> Masonry
> Plumbing

WHAT DO THESE SUBJECTS ENTAIL?

MASONRY

L2: This subject will equip you with the practical knowledge and skills needed to:

> Set out and build masonry walls.
> Prepare and plaster masonry and concrete vertical and horizontal soffit surfaces.
> Prepare and lay ceramic tiles on floor and wall surfaces.
> Prepare, set out and lay ceramic tiles on floor and wall surfaces.

L4: Materials focuses on construction materials, construction activities and construction processes.

CONSTRUCTION PLANNING

L2: This subject will equip you with a basic understanding of construction legislation, roles and responsibilities of different parties, communication skills, technical terminology and cognitive skills to question, understand and interpret instructions and drawings.

L3: Construction Planning focuses on the construction and building environment and deals with the reading and interpretation of drawings and the production of freehand drawings. You will learn to identify symbols and specifications in drawings, to determine information for setting out and identifying material types and gain knowledge on how to calculate quantities and perform costings.

PLANT AND EQUIPMENT

L2: This subject has been designed to provide a basic generic understanding of the operating principles, function, safe use and maintenance of tools, equipment and mechanised plants used in the construction industry. Students who successfully complete this subject should prove an asset in the workplace because they will know how to use equipment safely and responsibly, while achieving high levels of productivity.

L3: Equipment is a subject that deals with operating, using and maintaining of building and civil construction machinery and plant, while addressing related health and safety regulations.

MATERIALS

L2: This subject exists an understanding of the chemical and physical properties of construction materials so that you may understand:

> Why materials behave the way they do.
> How materials interact within the environment where they are used.
> How to select and use materials correctly.
> What effect materials may have on the behaviour of structures.
> How to shape, cut, join and combine materials to fabricate structures.

L3, L4: Materials focuses on construction materials, construction activities and construction processes.

CONSTRUCTION SUPERVISION

L4: Construction Supervision provides training on supervisory activities and functions such as planning, leading, monitoring, controlling, organising and motivating to ensure that work is productive in accordance with the requirements of the industry.

WHAT CAREER OPPORTUNITIES ARE OUT THERE?

> Architectural Technology
> Drainage Inspection
> Quantity Surveying
> Town and Regional Planning
> Sanitation Engineering
> Road Construction Engineering
> Civil Construction Engineering
> Building Construction

ENTRY REQUIREMENTS

Grade 9 Certificate with 50% pass in Mathematics

DURATION

3 Years

WHAT IS THIS PROGRAMME ABOUT?

This programme covers construction, masonry building and woodworking, design, drainage and sanitation in a practical, theoretical management and design environment. Through the integration of academic knowledge and theory with practical skills and values, you'll learn to literally build a better future.

WHAT VOCATIONAL ACTIVITIES WILL I BE ABLE TO PERFORM?

> Participate in the erection of reinforced concrete structures.
> Contribute to the work done on a building site.
> Preparing and laying ceramic tiles on floor and wall surfaces.

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> Architectural Technology
> Drainage Inspection
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> Building Construction

OUT THERE?

WHAT CAREER OPPORTUNITIES ARE OUT THERE?

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> Drainage Inspection
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> Road Construction Engineering
> Civil Construction Engineering
> Building Construction

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