

PROGRAMME TITLE	NQF	SAQA ID	CREDITS
HIGHER CERTIFICATE IN ENGINEERING IN ELECTRICAL ENGINEERING	5	122729	140

DESCRIPTION

The qualification is designed to serve two purposes namely: to provide access to Higher Education in Engineering and serves to provide learners with the introductory knowledge, cognitive and conceptual tools, and procedural skills that can be applied in an operative support occupation or role in Electrical Engineering. The qualification provides a thorough grounding in mathematics and natural sciences relevant to Electrical Engineering, engineering sciences, engineering design and the ability to apply specific established methods. Engineering knowledge is complemented by methods for understanding the impacts of Electrical Engineering solutions on people and the environment.

Students will be able to operate as technical assistants to effectively support Artisans, Technicians, Technologists and Engineers in the field of Electrical Engineering. This qualification will prepare students for careers in Electrical Engineering and contribute to the full development of the student within the Electrical Engineering environment by providing recognition and further mobility within the field. The qualification supports the philosophy of life-long learning because students will be able to increase their access to employment since this programme also caters for individuals that who are employed but lack the certification to perform efficiently or to be promoted.

CAREER FIELDS

With this qualification, successful learners could pursue a career as a:

- Electrical engineering and construction
- Industrial engineering
- Process control
- Digital electronic engineering
- Industrial electronics engineering
- Electrical technician

PROGRAMME OUTLINE

1 st Year, 1 st Semester				1 st Year, 2 nd Semester			
Module	Module Code	Credits	NQF	Module	Module Code	Credits	NQF
Mathematics 1		14	5	Drawing 1		14	5
Physics 1		14	5	Electrical Engineering Practice		14	5
Communication and Information Literacy Skills		8	5	Autotronic Technology		14	5
End User Computing for Engineering		10	5	Project Management Basics		10	5
Digital Technology		14	5	Electronic Technology		14	5
Electrical Technology		14	5				5
		74				66	

TYPE OF PROGRAMME

The programme duration is 1 year on a full-time basis, or 2 years on a part-time basis. Tuition is face to face and is scheduled per campus. Programmes are offered during the week on a full-time and part-time basis. Part-time tuition is scheduled as per the stipulated planner.



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ADMISSION REQUIREMENTS

The minimum entry requirement for the Higher Certificate in Engineering in Electrical Engineering is the following:

A National Senior Certificate with a Higher Certificate endorsement or higher and a minimum of 30% for English is required.

Or

A National Certificate (Vocational) - A minimum of 40% in English on either First Additional Language or Home Language level, and a minimum of 50% in four vocational subjects.

Or

A Senior Certificate with a pass in English.

Or

Mature Age Exemption: Candidates must have attempted Grade 12, on or above the age of 23 before or during the first year of registration with three years' work experience and proven ability relating to the proposed programme as well as requisite communication skills.

LEARNER MATERIAL

Prescribed textbook lists will be provided by the academic department at your campus. Students will receive electronic versions of the study guides for this programme.

PRICING

Enquire at the Berea College of Technology campus for a current programme pricelist.

ADDITIONAL COSTS

Students must make provision for additional items such as textbooks, stationery, supplementary examinations, research costs and printing of study guides etc.

EXAMINATION AUTHORITY

All Examinations are set by Berea College of Technology.

CERTIFICATION

On successful completion of the programme, the student will receive a Berea College of Technology Higher Certificate in Engineering in Electrical Engineering.

ARTICULATION

The successful student would have obtained sufficient credit to further their studies at other institutions permitting them. Students can further their learning both horizontally, diagonally, and vertically.

Vertical articulation may be pursued at other public and private institutions, for example to the Diploma in Engineering Technology in Electrical Engineering or the Bachelor of Engineering Technology in Electrical Engineering at DUT, CPUT or UJ or the Bachelor of Engineering Technology in Electrical Engineering offered at TUT, Bachelor of Engineering in Electrical Engineering offered at UJ, NWU, UZ or UP and similar diploma and degree qualifications offered at other universities.

Horizontal articulation may be pursued at other public and private institutions, for example to the Higher Certificate in Mechanical Engineering, Higher Certificate in Digital Marketing or the Higher Certificate in Social Media and Communication or other Higher certificates offered at BCT, or the Higher Certificate in Construction Engineering or the Higher Certificate in Industrial Engineering offered at TUT or the Higher Certificate in Information Technology offered at DUT or other Higher Certificate qualifications in Management and related.

Diagonal articulation may be pursued at other public and private institutions, for example to the Diploma in Information Technology offered at BCT or Diploma in Information Technology or Diploma in Operations Management at DUT or MUT or Diploma qualifications in related fields on the OQSF.

FURTHER STUDIES

Please enquire at the nearest Berea College of Technology campus for the prospectus containing post-certificate studies. Admission to further your studies at a different institution remains the prerogative of each institution and its academic council.



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DISCLAIMER

The information contained in this fact sheet is accurate at the time of printing. However, factors beyond Berea College of Technology control (such as environmental, regulatory or technical changes) may cause the contents of this fact sheet or of the programme to change. In the event of any such change, Berea College of Technology will formally notify current learners. All possible measures will be taken to minimise inconvenience to learners.

Name of Learner: I....., hereby acknowledge that I understand the information stated in this document and fully comprehend the specifics explained above pertaining to this qualification.

Signature of Learner:

Name of Legal Guardian:
(if applicable)

Signature:

Name of Sales Consultant:

Signature:

Name of Head of Department:

Signature:

Date:

* Please note the original signed copy should be kept on the learner record file.

