



# FACULTY OF ENGINEERING

**NC: Electrical  
Engineering**  
**N4 -N6 (1 Year)**

## COURSE DESCRIPTION

The programme progresses through three levels. Each N level takes place over one trimester. After each trimester, students are eligible for a National Certificate on that level. We recommend continuing through all three levels in order to qualify for the National Diploma. The National Diploma requires students to work for 24 months in the Electrical field before they are entitled to receive a National Diploma.



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# NC: Electrical Engineering N4 -N6 (1 Year)

## ENTRY LEVEL REQUIREMENTS

1:

Learners who want to register for this qualification must have;

### N4

- An appropriate National Certificate: N3: Engineering Studies.
- Grade 12/Matric pass with 40% in Physics and Maths

### N5

- A National Certificate: N4: Electrical Engineering with four subjects passed

### N6

- A National Certificate: N5: Electrical Engineering with four subjects passed

## MODULES BY SEMESTER

2:

### Semester 1 - N4

- Electrotechnics N4
- Industrial Electronics N4
- Mathematics N4
- Engineering Science N4

### Semester 2 - N5

- Electrotechnics N5
- Mathematics N5
- Power Machines N5
- Industrial Electronics N5

### Semester 3 - N6

- Power Machines N6
- Industrial Electronics N6
- Electrotechnics N6
- Mathematics N6

## LEARNING OUTCOMES

3:

Recipients of this Qualification will be able to:

- Evaluate and apply essential methods to technical operational systems.
- Analyze and apply acquired knowledge in performing the tasks and solve common problems.
- Gather and analyze relevant information, use data to apply theories and principles within Engineering related situations.
- Execute role and responsibilities by being able to summarize, classify, discuss and estimate application processes required through mathematical concepts, technical and schematic diagrams, computer and technology usage in a range of different contexts.
- Communicate with peers, customers and members of supervisory/management levels by presenting information reliably and accurately in spoken and written form.

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## ARTICULATION OPTIONS

4:

### N4

This qualification has been designed to allow entry into N5

### N5

This qualification has been designed to allow entry into N6.

### N6

Higher certificate, Diploma or Bachelor's Degree.

The following criteria must be met in order to write the National DHET Examinations

- \* DP 40%
- \* Attendance Ratio 80%

## JOB OPPORTUNITIES

5:

Find Employment

- Electrician
- Electro-Technician

- Master Technician
- Millwright

- Electrical Fitter/Engineer
- Electrical Wire person (Domestic Installation)

## LEARNING OUTCOMES

6:

Completion of National Certificates: Electrical Engineering N4, N5 and N6 as above plus 18 months of practical experience in a workplace leads to the National Diploma: Electrical Engineering.



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