



higher education
& training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA



westcol
Technical and Vocational Education and Training College

Your future starts here!

These programmes is recommended for students that would like to pursue a career in **TECHNICAL** or **ENGINEERING RELATED** studies

DURATION:

1 Trimester per certificate – 3 trimester per year

APPLICATION AND REGISTRATION:

1. Students **MUST** apply online on the website – online applications and **MUST** complete the **LEARNER PROFILER ASSESSMENT** as **STEP 1** of the application before continuing with STEP 2 and 3.
2. Successful applicants will be notified per SMS/email to come and register, **ONLY** after the **CLOSING DATE** of the application.
3. Please apply on time as space are limited.

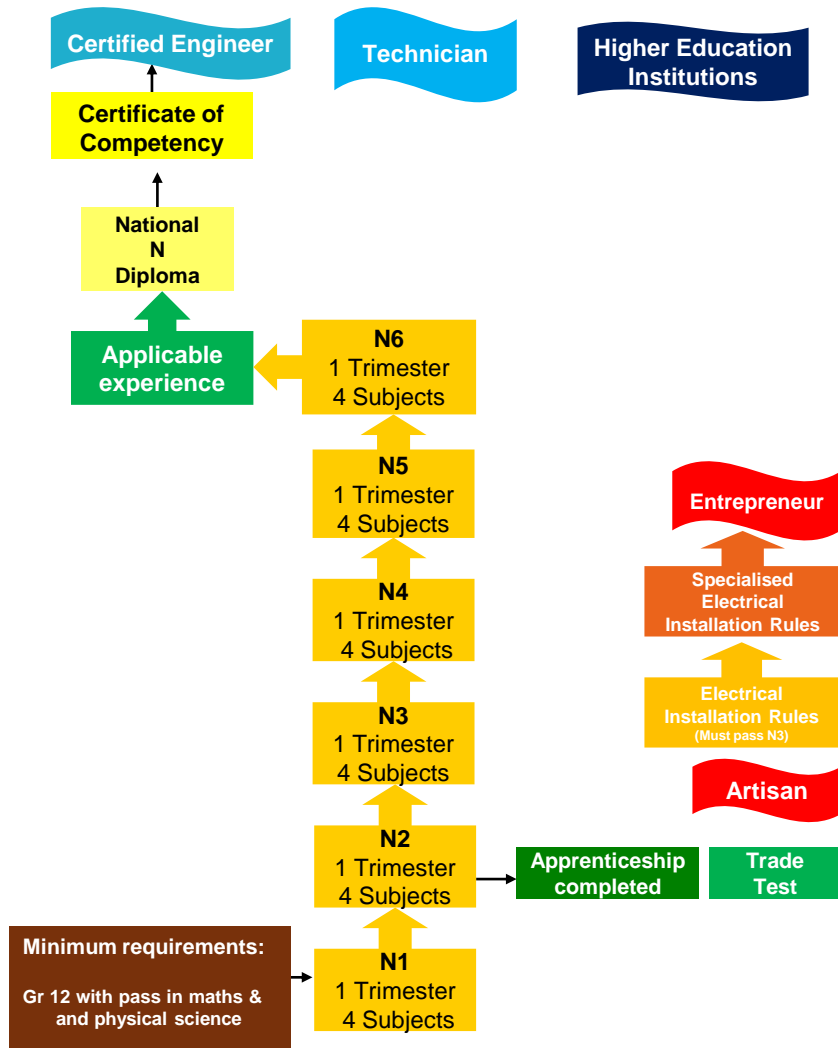
MODES OF DELIVERY:

Full-Time **ONLY**

Please note:

1. Westcol reserves the right to **ONLY** offer programmes that are justified by student numbers, to change the location/venue of the programme and to cancel programme/s.
2. Potential student are encouraged to apply for a NSFAS bursary online – www.nsfas.org.za
3. The cost of text books is included in the fee structure of these programmes.
4. Westcol operates a cash free system.
5. All monies must be directly deposited in any **ABSA BANK**.

ENGINEERING STUDIES LEARNING PATH



FIELDS OF STUDY OFFERED

Engineering Studies N1 – N6 Programmes	Carletonville	Krugersdorp- West	Randfontein	Westonaria
Engineering:N1 - N6	X N1-N4	X	X	X N1-N3
Electrical Installation Rules and Specialised Electrical Installation Rules		X	X	
Certificate of Competency	X	X	X	

Pre-Vocational Learning Programme (PLP) certificate

- This programme is an entry level foundational learning programme for articulation into learning programmes for students who do not meet the entry requirements.
- The programme prepares a student for enrolment in the relevant NC(V).
- The programme is pitched more or less at NQF level 2.

ENTRY REQUIREMENTS:

The programme is primarily aimed at students who have passed at Grade 9 with weak/poor literacy and numeracy foundation.

Students with Grade 9 and with weak/poor marks in Mathematics and Science and those who have not been part of the study environment for a few years could also be considered.

SUBJECTS:

1. Foundational English,
2. Foundational Mathematics(not Mathematical Literacy)
3. Foundational Science
4. Foundational Life Skills and Technology

Please note:

There is no **NATIONAL EXAMINATION** for **PLP** and the programme follows a continuous assessment process

Engineering Studies N1 to N3

Please take note that DHET intends to phased out N1 –N3 in the near future and to replaced with QCTO programmes that will include a practical component

ENTRY REQUIREMENTS – N1

1. Grade 12 statement with pass in Mathematics and English FAL and Physical Science.
2. APS score of 18, using the best six NSC / NC (V) L4 subjects inclusive of Mathematics/Technical Mathematics and English.

N1

Compulsory subjects

1. Mathematics
2. Engineering Science
3. Engineering Drawing or Industrial Electronics or Plating and Structural Steel Drawing*

Choose any ONE of the following subjects:

- Motor Trade Theory*
- Electrical Trade Theory
- Instrument Trade Theory
- Metal Workers Theory
- Fitting and Machining

Please note: * Compulsory combination

N2

Compulsory subjects

1. Mathematics
2. Engineering Science
3. Engineering Drawing or Industrial Electronics or Plating and Structural Steel Drawing*

Choose any ONE of the following subjects:

- Diesel Trade Theory
- Electrical Trade Theory
- Instrument Trade Theory
- Platers Theory
- Fitting and Machining
- Rigging Theory
- Motor Electrical Trade Theory
- Motor Trade Theory*

Please note: * Compulsory combination

N3

Compulsory subjects

(4 subject constitutes a certificate)

1. Mathematics
2. Engineering Science
3. Engineering Drawing
4. Mechanotechnology
5. Electrotechnology
6. Industrial Electronics
7. Instrument Trade Theory

Engineering Studies N4 to N6

ENTRY REQUIREMENTS - N4

- Any of the following NC(V) L4 Certificates:
 - Civil Engineering and Building Construction
 - Drawing Office Practice
 - Electrical Infrastructure Construction
 - Engineering and Related Design
 - Information Technology and Computer Science
 - Mechatronics
 - Process Instrumentation
 - Process Plant Operations: or an
- National Certificate: N3 Engineering Studies;
- Equivalent occupational qualification;
- APS score of 24, using double the Mathematical/Technical Mathematics plus one relevant Technology Subject (Civil, Electrical, Mechanical) or Physical Science, plus English and the two (2) next best subjects of NSC.

N4

- Supervisory Management
- Electrotechnics
- Industrial Electronics
- Industrial Instruments
- Mechanical Draughting
- Mechanotechnics
- Engineering Science
- Mathematics

N5

- Supervisory Management
- Strength of Materials And Structures
- Mathematics
- Power Machines
- Mechanotechnics
- Electrotechnics
- Mechanical Drawing And Design
- Fluids Mechanics
- Industrial Electronics
- Industrial Instruments

N6

- Supervisory Management
- Strength of Materials and Structures
- Control Systems
- Electrotechnics
- Industrial Electronics
- Industrial instruments
- Mechanical Drawing and Design
- Power machines
- Fluids mechanics
- Mechanotechnics
- Mathematics

Installation Rules and Specialised Installation Rules (Wireman's Licence)

This programme is compulsory for electricians in order to install electrical wiring of domestic/industrial premises.

External examinations are written in March, July and November.

ENTRY REQUIREMENTS:

- Qualified artisan
- N3 certificate with Electrotechnology as one of the subjects.

DURATION:

1 Trimester

ENROLMENT DATES

January, May and September

MODES OF DELIVERY:

On request based on student numbers.

SUBJECTS

Certificate: Installation Rules

- Installation Rules
- Electrical Wiring Skills

Certificate: Specialised Electrical Installation Codes

- Specialised Electrical Installation Codes

PLEASE NOTE:

- Pass mark is 50%
- Both programmes consist of two examination papers per subject.
- Only a statement of results is issued to successful candidates.

Engineering Certificate of Competency (Government Ticket)

It is compulsory for **ELECTRICAL** and **MECHANICAL ENGINEERS** to obtain this qualification in order to be professional recognised.

ENTRY REQUIREMENTS – SUMMARY

- Receipt of monies paid
- Certified copies of qualifications
- Proof of appropriate practical experience on company letter head and verified by signature of the employer.
- A testimonial of sobriety and conduct signed by an employer.
- Proof of age, name and identification number, i.e. certified copy of ID document or a copy of birth certificate.
- A letter from the Resident Engineer, where possible indicating that the applicant is considered to be a suitable candidate.

COMPUSORY SUBJECTS

M) – Mechanical Engineering (E) – Electrical Engineering

- N3 Engineering Drawing (M) (E)
- N3 N4 Engineering Science (M) (E)
- N4 Industrial Electronics (M)
- N4 Mathematics (M) (E)
- N4 N5 Fluid Mechanics (M)
- N5 Strength of Materials (E)
- N5 Electrotechnics (M)
- N5 N6 Control Systems (M) (E)
- N6 Mechanotechnics (M) (E)
- N6 Power Machines (M) (E)
- N6 Strength of Materials (M)
- N6 Fluid Mechanics (M)
- N6 Industrial Electronics (E)
- N6 Electrotechnics (E)
- N6 Supervisory Management (M) (E)

N6 CONVERSION COURSE

To enable holders of the Mechanical Certificate of Competency or vice versa:

- Electrotechnics (M)
- N6 Industrial Electronics (M)
- N6 Strength of Materials (E)
- N6 Fluid Mechanics (E)

The subjects shown are only the highest levels to be attained. All the grades leading to that level must also be attained with a 50% pass mark (e.g. Electrotechnics N6 includes a pass in this subject on the N3, N4 and N5 levels).

Examinations

- The letter of acceptance must be submitted when entering for the qualifying subjects at Westcol Campus examination Office and the appropriate examination fees must be paid.
- The examinations are held in June and November and the closing dates for entry are set by the Department of Education.

Application forms for acceptance are obtainable from:

The Secretary Commission of Examiners
Department of Labour

Private bag X117 Pretoria 0001

Tel.: (012) 309 4111

Website: www.labour.gov.za

SELECTION CRITERIA

REPORT 191 ENGINEERING STUDIES N1 and N4

PROGRAMME	ADMISSION REQUIREMENTS
N1	<ul style="list-style-type: none">• Grade 12 statement with pass in Mathematics, English FAL and Physical Science.• APS score of 18, using the best six NSC/NC(V) L4 subjects inclusive of Mathematics/Technical Mathematics and English.
N4	<ul style="list-style-type: none">• Any of the following NC (V) L4 Certificates:• Civil Engineering and Building Construction• Drawing Office Practice• Electrical Infrastructure Construction• Engineering and Related Design• Information Technology and Computer Science• Mechatronics• Process Instrumentation• Process Plant Operations: or an• National Certificate: N3 Engineering Studies; or an• Equivalent occupational qualification; or an• APS score of 24, using double the Mathematical/Technical Mathematics plus one relevant Technology Subject (Civil, Electrical, Mechanical) or Physical Science, plus English and the two (2) next best subjects of NSC.

TRIMESTER PROGRAMMES 2023

Engineering Studies: N1 to N6

Trimester 1		Trimester 2		Trimester 3	
College opens	09 January	College opens	16 May	College opens	04 September
Registration:	09 – 17 Jan	Registration	16 – 18 May	Registration	04 – 12 Sep
Class commence	18 January	Class commence	22 May	Class commence	13 September
Examination	27 March – 20 April	Examination	28 July – 18 August	Examination	20 Nov – 08 Dec
College Closes	20 April	College Closes	18 August	College Closes	08 Dec

CLASS FEES - 2023 ENGINEERING STUDIES N1 – N6	
Engineering Studies N1 to N3	
Cash price	R2 000,00
Cost per subject	R500,00
Payment options:	
1 & 2 Subjects	Cash only
3 Subjects	50% deposit R1 000,00 2 instalments of R375,00
4 Subjects	50% deposit R1 000,00 2 instalments of R500,00
Engineering Studies N4 to N6	
Cash price	R2 334,00
Cost per subject	R583,50
Payment options:	
1 & 2 Subjects	Cash only
3 Subjects	50% deposit R1 750,50 2 instalments of R875, 25
4 Subjects	50% deposit R1 167,00 2 instalments of R583,50
EXAMINATION ONLY	
Cash price per subject	R 490.00