

CAREER GUIDANCE

Free career guidance is available by qualified career guidance practitioners. For more info contact 041 995 2000 or email: careerguidance@emcol.co.za

(NCV) APPLICATION/REGISTRATION

- Submit latest results of highest qualification and identity document (ID).
- Submit ID and proof of address of person responsible for tuition fees.
- A registration fee is payable on registration in order to be admitted to class.

- Class fees are subject to change and can be obtained on request from the specific campus.
- Class fees must be paid in full before commencement of examinations.
- Proof of physical address.

FINANCIAL AID

Bursaries are available to qualifying students in need of financial assistance who demonstrate potential for academic success.

For more information, speak to the Financial Aid Officer at your campus or alternatively visit www.nsfas.org.za or enquire at a Local Youth or NYDA Office.

NATIONAL CERTIFICATE (VOCATIONAL)

WHAT IS THE NATIONAL CERTIFICATE VOCATIONAL?

It is a specialised National Certificate for a chosen career. This qualification is designed to provide both the theory and practice of the chosen career and is geared towards alleviating the skills shortage in the country.

MINIMUM ENTRY REQUIREMENTS

- A year-end school report for Gr 9 or Gr 10; or 11,
- A NQF Level 1 qualification; or
- An approved bridging programme designed for the specific purpose to access NQF Level 2; or
- A Recognition of Prior Learning (RPL) assessment to meet the basic requirements for access to NQF Level 2.

WHAT HAPPENS AFTER YOU FINISH YOUR NCV LEVEL 4 ?

- Study further at a TVET college towards N4-6 National career path N Diploma
- Study further at a Selective Technical University
- Study towards apprenticeship or artisan training programme

CONTACT DETAILS

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Disclaimer: All reasonable steps have been taken to ensure that the information contained in this brochure was accurate at the date of publication. EMC reserves the right to make changes to the programme details (e.g. rules, admission requirements etc.) as published in this brochure.

WHICH SUBJECTS MAKE UP A NATIONAL CERTIFICATE (VOCATIONAL)?

In order to obtain a National Certificate (Vocational), a student is required to take a total of 7 subjects.

These include 3 fundamental subjects and 4 vocational subjects.

WHICH ARE THE FUNDAMENTAL SUBJECTS?

The 3 fundamental subjects are:

- English 1st Additional Language
- Mathematics or Technical Mathematics
- Life Skills & Computer Literacy

WHICH ARE THE VOCATIONAL SUBJECTS?

Subjects are listed as per programme.

NC(V) PROGRAMMES ARE OFFERED AT THE FOLLOWING CAMPUSES:

PROGRAMME	Park Avenue	Charles Goodyear
Information Technology & Computer Science	●	
Electrical Infrastructure Construction	●	
Programming & Robotics	●	
Engineering & Related Design: Automotive Repair & Maintenance		●
Engineering & Related Design: Fitting & Turning		●
Engineering & Related Design: Welding		●

HOW TO APPLY ONLINE

STEP 1	Click on the link provided or scan the QR Code
STEP 2	Register an account
STEP 3	Read the terms and conditions carefully then click the accept button
STEP 4	Fill in the student profile which consists of 3 steps and create your password then press continue
STEP 5	Provide your latest results (percentage) as per the qualification click the exit or back button then it will take you back to take page.
STEP 6	Now you have to put in the password you created in Step 4 to access your account
STEP 7	Now you will see the Dashboard: where you will click on current applications and then create a new application by clicking on the year which you are applying for, the course and duration of the course as well as the campus you want to study at.
STEP 8	Click Apply for this course, remember to read the disclaimer then press ok
STEP 9	Confirm your subjects by ticking/ clicking all the subjects provided under the course you have chosen, then press the confirm button
STEP 10	Fill in all the subtitles until all show green ticks if one shows red, it means your application is incomplete meaning you have missed something
STEP 11	In the same row click Docs then upload your documents. Remember these documents must be in PDF format.

CAREER PATHS

Information Technology & Computer Science	<ul style="list-style-type: none"> • Information Technology Management • Computer Systems Engineering • IT or Network Technician • Computer Programmer • Website Developer • Data Capturer • Desktop Support Technician • Office Computer User[B
Electrical Infrastructure Construction	<ul style="list-style-type: none"> • Study towards university degree • Apprenticeships • Electrical Artisan[BR9.1] Technician • PV Installer • Solar System Installer • Solar System Mounter • Wind Turbine Service Technician
Engineering & Related Design	<ul style="list-style-type: none"> • Study towards university degree • Apprenticeships • Mechanical, Motor Mechanic, Toolmaker, Welder Artisan[BR10.1] • Draughtsman • Mechanical Designer • Vehicle Service Advisor • Computer Numerical Control (CNC) Programmer • Mechanical Filter • Millwright • Drawing Office Designer
Programming & Robotics	<ul style="list-style-type: none"> • ICT Technician • IoT Operator/Device Manager • IT Hardware Installer • Technical Programmer

NC(V) PROGRAMMES OFFERED

NB: (O) = Optional subjects* Optional subjects can also be chosen from any other sub-field*

	LEVEL 2	LEVEL 3	LEVEL 4
Information Technology & Computer Science	<ul style="list-style-type: none"> • Introduction to Information Systems • Electronics • Introduction to Systems Development • Multimedia Basics 	<ul style="list-style-type: none"> • Systems Analysis and Design • Computer Hardware & Software • Principles of Computer Programming • Multimedia Content 	<ul style="list-style-type: none"> • Systems Analysis & Design • Data Communication & Networking • Computer Programming • Multimedia Services
Electrical Infrastructure Construction	<ul style="list-style-type: none"> • Electrical Principles & Practice • Workshop Practice • Electronic Control & Digital Electronics • Electrical Systems & Construction (O) or • Renewable Energy & Technology (O) 	<ul style="list-style-type: none"> • Electrical Principles & Practice • Electrical Workmanship • Electronic Control & Digital Electronics • Electrical Systems & Construction (O) • Renewable Energy & Technology (O) 	<ul style="list-style-type: none"> • Electrical Principles & Practice • Electrical Workmanship • Electronic Control & Digital Electronics • Electrical Systems & Construction (O) • Renewable Energy & Technology (O)
Engineering & Related Design	<ul style="list-style-type: none"> • Engineering Fundamentals • Engineering Technology • Engineering Systems • Fitting & Turning (O) OR • Automotive Repair & Maintenance (O) OR Welding (O) 	<ul style="list-style-type: none"> • Engineering Practice & Maintenance • Materials Technology • Engineering Graphics and Design • Fitting & Turning (O) OR • Automotive Repair & Maintenance (O) OR Welding (O) 	<ul style="list-style-type: none"> • Engineering Processes • Professional Engineering Practice • Applied Engineering Technology • Fitting & Turning (O) OR • Automotive Repair & Maintenance (O) OR Welding (O)
Programming & Robotics	<ul style="list-style-type: none"> • Electronics and Digital Concepts for Robotics • Robotics Fundamentals • Basic Principles of Computer Programming and Computer Literacy • Introduction to Information System 	<ul style="list-style-type: none"> • Electronics and Digital Concepts for Robotics • Introduction to Robotics • Introduction to Technical Programming • System Analysis & Design 	<ul style="list-style-type: none"> • Electronics and Digital Concepts for Robotics • Robotics and Industrial Automation • Technical Programming • System Analysis & Design

THEN YOUR APPLICATION WILL BE COMPLETED. REMEMBER TO CONSTANTLY CHECK YOUR STATUS TO SEE CHANGES



QR CODE FOR APPLICATION

ENGINEERING PROGRAMMES

NCV & REPORT 191



creating new futures

WHAT IS REPORT 191/NATED?

National Accredited Technical Education Diploma (NATED) programmes are delivered under the auspices of the Department of Higher Education and Training. The programmes consist of 18 months theoretical studies at colleges and 18 months relevant practical application in work places. Engineering programmes range from N1-N6 while Business and Utility programmes range from N4-N6.

MINIMUM ENTRY REQUIREMENTS:

N5	N4
N6	N5
(Maths and Science are required for Engineering programmes)	

PROGRAMMES OFFERED AT THE FOLLOWING CAMPUSES

PROGRAMME	PARK AVENUE	CHARLES GOODYEAR	GRAAFF-REINET WOEKER STREET
Mechanical Engineering		●	
Electrical / Electronic Engineering	●		
Civil Engineering		●	●



PRACTICAL SKILLS TRAINING

COURSES OFFERED	DURATION
Electronics (Light Current)	10 weeks
Welding	10 weeks
Fitting & Machining	10 weeks
Electrical (Heavy Current)	10 weeks
Motor Mechanics	10 weeks

NATIONAL CERTIFICATE: MULTI-DISCIPLINARY DRAWING OFFICE PRACTICE

This certificate can be obtained on the successful completion of four N4 subjects and four N5 subjects. Pass requirement: 50%

- Mechanical and Drawing Office Orientation
- General Draughting
- Pictorial Draughting
- Mechanical Draughting
- Building Draughting
- Computer-Aided Draughting
- Electrical Draughting
- Structural Steel Detailing
- Technical Illustration

PRE VOCATIONAL LEARNING PROGRAMME (PLP) PARK AVENUE CAMPUS

Pre-vocational or pre-technical education programmes are mainly designed to introduce students to the world of work and to prepare them for entry into further vocational or technical education programmes. Successful completion of such programmes does not lead to a vocational or technical qualification that is directly relevant to the labour market. For a programme to be considered as pre-vocational or pre-technical education, at least 25% of its content has to be vocational or technical.

Admission Requirements:	Grade 9
Duration:	1 year
Subjects:	<ul style="list-style-type: none"> • English • Mathematics • Science • Life Skills • Technology

(R191) APPLICATION / REGISTRATION

- Submit latest results of highest qualification and identity document (ID).
- Submit ID and proof of address of person responsible for tuition fees.
- Class fees are subject to change and can be obtained on request from the specific campus. Class fees must be paid in full before commencement of final examinations.
- Proof of physical address.

CERTIFICATES

Full-time: Four subjects are offered daily for approximately 10 weeks.

Part-time: Two subjects are offered twice weekly for approximately 10 weeks.

After 10 weeks a national examination is written (April, August & November).

Students who pass all subjects will be issued with a national certificate in the specific field of study.



DIPLOMAS

After completing N6 with 2 years relevant practical experience, students qualify for a National N-diploma. 12 subjects are required on N4, N5 & N6 levels.

At least 2 N6 subjects must have relevance to the vocation of the candidate.

WHAT HAPPENS AFTER YOU FINISH YOUR NCV LEVEL 4 ?

- Study further at a TVEI college towards N4-6 National career path N Diploma
- Study further at a Selective Technical University
- Study towards apprenticeship or artisan training programme

CERTIFICATE OF COMPETENCY (GOVERNMENT TICKET)

TO REGISTER AS A PROFESSIONAL ENGINEER THE FOLLOWING SUBJECTS ARE REQUIRED:

N5	<ul style="list-style-type: none"> • Electrotechnics • Power Machines • Strength of Materials & Structures • Supervisory Management • Industrial Electronics (Electrical Engineering only) 	<ul style="list-style-type: none"> • Mechanotechnics
N6	<ul style="list-style-type: none"> • Control Systems • Power Machines • Electrotechnics (Electrical Engineering only) • Industrial Electronics (Electrical Engineering only) • Strength of Materials & Structures (Mechanical Engineering only) 	<ul style="list-style-type: none"> • Mechanotechnics • Supervisory Management

PRACTICAL QUALIFICATIONS:

- Must be qualified in a relevant trade.
- Must have a minimum of 2 year's relevant experience after qualifying.

FINAL EXAMINATION:

- Apply for admittance to the Engineering Board.
- Do examination in: Plant Engineering (Mining/ Factories) and Legal Knowledge (Mines and Works).

CAREER PATHS

Civil Engineering	<ul style="list-style-type: none"> • Structural Engineer • Site Engineer / Construction Manager • Geotechnical Engineer • Transportation Engineer • Water Resources Engineer • Environmental Engineer
Mechanical Engineering	<ul style="list-style-type: none"> • Design Engineer • Maintenance Engineer • Manufacturing Engineer • Thermal / Energy Engineer • Automotive Engineer • Mechatronics Engineer
Electrical/ Electronic Engineering	<p>(Heavy Current)</p> <ul style="list-style-type: none"> • Power Systems Engineer • Maintenance Engineer • Control & Instrumentation Engineer • Renewable Energy Engineer <p>(Light Current)</p> <ul style="list-style-type: none"> • Electronics Design Engineer • Telecommunications Engineer • Embedded Systems Engineer • Automation / Robotics Engineer



N5

N6

Civil Engineering	<ul style="list-style-type: none"> • Quantity Surveying • Building Administration • Building & Structural Construction • Building & Structural Surveying • Mathematics • Supervisory Management 	<ul style="list-style-type: none"> • Quantity Surveying • Building Administration • Building & Structural Construction • Building & Structural Surveying • Mathematics • Supervisory Management
Mechanical Engineering	<ul style="list-style-type: none"> • Mathematics • Power Machines • Strength of Materials and Structures • Supervisory Management • Mechanotechnics • Production and Quality Control 	<ul style="list-style-type: none"> • Mathematics • Power Machines • Strength of Materials and Structures • Supervisory Management • Mechanotechnics • Production and Quality Control • Industrial Affairs
Electrical/Electronic Engineering	<ul style="list-style-type: none"> • Mathematics • Industrial Electronics • Electrotechnics • Power Machines • Digital Electronics • Strength of Materials and Structures • Supervisory Management • Production and Quality Control • Industrial Affairs 	<ul style="list-style-type: none"> • Mathematics • Industrial Electronics • Electrotechnics • Power Machines • Control Systems • Supervisory Management • Production and Quality Control • Industrial Affairs • Digital Electronics