



POTCHEFSTROOM
COLLEGE GCC



FOR THE COMPLETE ENGINEER

PROSPECTUS

JUL - NOV 2026



WELCOME

At Potchefstroom College GCC we offer a variety of courses to help engineers successfully complete their Government Certificate of Competency, otherwise known as GCC or ticket.

Because this is such a prestigious qualification you need to qualify before you can write this exam. To qualify you must have a letter of acceptance from either the Department of Minerals and Energy (Mines) or the Department Labour (Factories).

For further details please read the requirements on page 6 or if you're still not sure, send us copies of your qualifications with pass rates for each subject as well as details about your relevant experience.

Q: What makes the Government Certificate of Competency such a prestigious qualification?

A: Once you've passed your GCC you are considered a competent engineer, and by law, you are allowed to manage an engineering section of a mine or factory.

IMPORTANT DATES

EXAM DATES 2026

PLANT	
Mines and works	5 Nov
Factories	
LAW	
Legal Knowledge: Mines	12 Nov
Health and Safety Act	

Registration date

Last date for examination registration
10 September 2026 to be done at any approved FET College.

AVAILABLE COURSES

Preparation week course - ONLINE

This course is presented as a online TEAMS course and is designed to help prepare students for the GCC exam, with loads of advice on how to approach the exam.

Subjects: *Plant and Law subjects*

Cost: R3 500 Plant
R1 800 Law

Dates:

Mines Plant:	12-16 Oct 2026 morning session
Mines Law:	12-16 Oct 2026 afternoon session
Factories Plant:	19-23 Oct 2026 morning session
Factories Law:	19-23 Oct 2026 afternoon session

Time:

Morning sessions

08:00 - 13:00

Afternoon sessions

14:00 - 17:00

IMPORTANT INFORMATION:

1. This course will be presented live as a online TEAMS meeting. Please note that internet connectivity on a device such as a laptop, cellphone or tablet is a prerequisite. Please make sure to install the TEAMS app before the class commends. The link for the course will only be send once the full

payment is received.

2. All payments has to be done before the start of the course.
 3. If an Invoice, should be send to your Company a Company Confirmation letter that states that the company is responsible for and accepts liability for the candidates course fees will required.
 4. Only written cancellations done 5 working days prior to the start of the course will be accepted, otherwise the candidate will remain liable for the payment of the full course fee.
- Candidates who pre-register: Complete registration form and send back together with proof of payment. A proof of enrolment will be send back to candidate.
 - Private Payment: Complete registration form and send back via email together with proof of payment. Proof of enrolment will be send back to candidate.
 - Company payment: Complete registration form and email back with Company's Confirmation letter that states that company is responsible and accepts liability for candidate's course fees. Aforesaid letter should be on Company's letterhead and should reflect Company VAT number, correct postal address, contact person with a contact number.

As soon as an ORDER NO or letter of confirmation of payment or payment is received, a proof of enrolment will be send to candidate.

Online Training course

This course will be presented live as a online TEAMS meeting. Please note that internet connectivity on a device such as a laptop, cellphone or tablet is a pre-requisite. Please make sure to install the TEAMS app before the class commends. The link for the course will only be send once the full payment is received.

Subjects: Plant @ R3 500

Law @ R1 800

(Notes included in the price.)

Time: 18:00 (± 2 hours)

DATES FOR ONLINE TRAINING	
Factories Plant	Mondays Starts 13 July 2026
Factories Law	Tuesdays Starts 14 July 2026
Mines Plant	Wednesdays Starts 15 July 2026
Mines Law	Thursdays Starts 16 July 2026

NB: Dates are subject to change. Make sure that you fill in your email address on the registration form so that we can inform you in time. The TEAMS link will only be send once full payment has been made.

Correspondence courses

This course is for students that want to study via mail. You will receive your study material via POSTNET or Courier Guy.

Subjects: Plant and law subjects

Cost: R3 700 Plant

(Plus postage fees of R150)

R1 800 Law

(Plus postage fees of R150)

Dates: Via mail, anytime of year

Also see our option for previous exam papers to help you prepare for the exam.

Corporate courses

If you have ten or more students preparing for the GCC exam, courses at your own facilities can be arranged for Plant Engineering. Please contact our office for more information.

Subjects: Plant subjects only

Cost: R35 000 for first 10 candidates, thereafter R3 400 per person.
(Plus travelling and accommodation if necessary)

Dates: BOOKINGS ESSENTIAL
Please book early to avoid disappointment.

SYLLABUS

Plant syllabus

- Section I: Mechanical Engineering
- Chapter 1: Belt drives
Chapter 2: Gear drives
Chapter 3: Conveyor Belts
Chapter 4: Traction
Chapter 5: Rope Haulages
Chapter 6: Bucket Elevators
Chapter 7: Chairlifts
Chapter 8: Elevators
Chapter 9: Winders(only mines)
Chapter 10: Vehicle dynamics
Chapter 11: Brake systems
Chapter 12: Flywheels
Chapter 13: Coiled Springs
Chapter 14: Lubricating
Chapter 15: Bearings
Chapter 16: Welding
- Section II: Strength of Materials
- Chapter 1: Line Shafts
Chapter 2: Beams
Chapter 3: Retaining walls
- Section III: Hydraulics
- Chapter 1: Flow measurement
Chapter 2: Flow in pipelines
Chapter 3: Centrifugal and Reciprocating pumps

- Section IV: Thermodynamics
- Chapter 1: Compressors
Chapter 2: Rotary air compressors
Chapter 3: Refrigeration
Chapter 5: Boilers
Chapter 6: Heat transfer (autoclave)
Chapter 7: Water treatment
- Section V: Electrical
- Chapter 1: Electrical Circuits
Chapter 2: Power factor correction
Chapter 3: Transmission lines
Chapter 4: Fault calculations
Chapter 5: Circuit Breakers
Chapter 6: Illumination
Chapter 7: Induction motors
Chapter 8: Starting of AC motors
Chapter 9: Synchronous motors
Chapter 10: Transformers
- Section VI: Management
- Chapter 1: Introduction to risk management
Chapter 2: Risk Management
Chapter 3: Safety Management

Law syllabus

OSHACT

An occupational health and Safety Act and Regulation handbook (Latest Edition)
Typical examination questions
Most recent exam papers (last 4)

MINES

Mine Health and Safety Act and Mineral Regulations handbook (latest ed.)

REQUIREMENTS

Requirements for acceptance to Government Certificate of Competency. The candidate must be 23 years or older. No person will be allowed to enter for the qualifying examination, unless he/she has been accepted as a candidate by the Commission of Examiners, and no credit will be given for a pass prior to such acceptance.

The University Route

A B.Sc. degree in mechanical or electrical engineering recognised by the Commission of Examiners and at least two years post graduate appropriate practical experience in the maintenance and operations of mechanical and electrical machinery, satisfactory to the Commission of Examiners of which at least one year has been at a mine in the RSA

The Technicon Route

A course in engineering (mechanical or electrical as the case may be), a National Diploma (S4) plus at least two years experience subsequent to the issue of such diploma in the maintenance and operations of mechanical or electrical machinery as the case may be, which is satisfactory to the Commission of Examiners, and of which at least one year has been at a mine in the RSA.

The completion of such course shall include passing all the subjects with a mark of at least 50%. The Technicon must subsequently certify that a candidate for the Government Certificate of Competency, having followed the Technicon route, has -

- (i) Completed a curriculum, which covers the syllabus for Plant Engineering
- (ii) Acquired a National Diploma with a mark per subject of at least 50%;
- (iii) Received the required experiential training; or

Enrolled for the B.Tech. Degree, at a Technicon granted permission by the Commission of Examiners with the undertaking from such Technicon to monitor and control the required experiential training after completion of such degree

The Technical College Route

A course in engineering (mechanical or electrical as the case may be). The completion of such course shall include passing all the subjects with a mark of at least 50%.

Such person shall also have served an apprenticeship in an appropriate trade and has gained experience in the maintenance and operations of mechanical or electrical machinery, as the case may be. Such experience of which at least one year has been at a mine in the RSA, shall be satisfactory to the Commission of Examiners.

After the completion of the prescribed course, the Department of National Education will be required to certify that a candidate for the Government Certificate of Competency, having followed the Technical College route, has

- (i) Completed a curriculum, which covers the syllabus for Plant Engineering;
- (ii) Acquired a National Certificate on the N6 level, with a mark of at least 50% in all subjects

EVALUATION OF SUBJECTS:

Please contact the department:

Department of Labour

(Tel: 012 309 4111/4384/4392/4378

Adres: Laboria House
215 Francis Baard Street
PRETORIA

or

Department of Minerals and Energy

(Tel: 012 444 3504/3272/3505/4443505

Adres: Mineralia centre
234 Visagie Street
PRETORIA

OTHER CONTACTS

Department of Education

- Exam results and revisions
- List of available FET colleges
Tel: 012 357 3966/45/39

Department Minerals and Energy

- Letter of acceptance for mines
- Issue of GCC certificate for mines
Tel: 012 444 3504
ayanda.zide@dmr.gov.za

Department Labour

- Letter of acceptance for factories
- Issue of GCC certificate for factories
Tel: 012 309 4111 or
Tel: 012 309 4392/84
lama.mofokeng@labour.gov.za

Lexis Nexis

- OHS act books for factories
- Legal Knowledge books for mines
Tel: 011 525 9400

Postnet

- Tracking of your registered parcel
for correspondence students only.

PREVIOUS PAPERS

We also have previous exam paper available for students who are interested please contact our office.

EXAM PAPERS:

Previous exam papers with memo's

MINES	FACTORIES
Plant Nov 2021 Jun & Nov 2022 Jun & Nov 2023 Jun & Nov 2024 Jun & Nov 2025 Jun 2026	Plant Jun & Nov 2017 Jun & Nov 2018 Jun & Nov 2019 Jun & Nov 2021 Jun & Nov 2022 Jun & Nov 2023 Jun & Nov 2024 Jun & Nov 2025 Jun 2026
Cost: R500	Cost: R850

Law: Legal Knowledge mines Jun & Nov 2017 Jun & Nov 2018 Jun & Nov 2019 - Jun & Nov 2021 Jun & Nov 2022 Jun & Nov 2023 Jun & Nov 2024 Jun & Nov 2025 Jun 2026	Law: Occupational Health and Safety Jun & Nov 2017 Jun & Nov 2018 Jun & Nov 2019 Des 2020 Jun & Nov 2021 Jun & Nov 2022 Jun & Nov 2023 Jun & Nov 2024 Jun & Nov 2025 Jun 2026
Cost: R850	Cost: R900
*Postage R150	*Postage R150
TOTAL: R1500	TOTAL: R1900
(15% vat included)	

If you are interested please fill in a form and send it back to us via email gcc@potchcollege.co.za with PROOF OF PAYMENT

TESTS:

5 Additional tests with memo's

FACTORIES PLANT
Cost: R250
*Postage R150
TOTAL: R400 (15% vat included)

If you are interested please fill in a form* and email it to gcc@potchcollege.co.za with PROOF OF PAYMENT.

* Postage fees will only apply once if you order more than one offering simultaneously. All forms are available on our website @ www.potchcollegegcc.co.za.



CONTACT DETAILS

Address:

28 Wagner Street, Van der Hoffpark, Potchefstroom.

Tel: +27 (0)79 838 1841

Email: gcc@potchcollege.co.za

Website: www.potchcollegegcc.co.za

Office Hours:

Mon. - Thurs. 08:00 - 15:00,

Fri. 08:00 - 13:00.

Contact Person:

Tanja Kleyn - Course Co-ordinator