National N Certificate and Diploma: Engineering Studies

Damelin correspondence
The Career Development College

Enrol • Qualify • Achieve
With one of the most employer-recognised colleges
Programme Types offered at Damelin Correspondence College (DCC)

1. National Qualifications are credit-bearing qualifications registered on the NQF (National Qualifications Framework) and accredited by a Quality Assurance Body, such as a SETA (Sector Education and Training Authority). A skills programme is an accredited component of a National qualification.

2. Agent Programmes are programmes for which Damelin Correspondence College offers tuition, but where DCC does not issue the final certificate. The Agent Body issues the final certificate and manages the final examinations.

3. Damelin Correspondence College Programmes are DCC’s own programmes that are not linked to the NQF and are not credit-bearing, however, they are in high demand and carry the approval of the Damelin Correspondence College Academic Board.

Damelin Correspondence College Programmes fall into four categories:

- **Damelin Correspondence College Career Programmes** are DCC’s own programmes that are designed to teach you the skills and knowledge to succeed in a particular career.

- **Damelin Correspondence College Continuous Professional Development (CPD) Short Courses** are courses that help you add to your current professional knowledge in a particular field, and hence boost your abilities within your career.

- **Damelin Correspondence College Orientation Programmes** are short courses that introduce you to a particular field or career and that offer you the opportunity to explore an interest or skills set without having to enrol on a full programme.

- **Damelin Correspondence College Self-Employment Programmes** are designed to refine your skills in a particular field of interest; to teach you how to make a living from a particular skill, interest or hobby, and to help you start your own business.
National Certificate: Important Information

Closing Dates for Assignments
Trimester 1: 31 January 2014
Trimester 2: 31 May 2014
Trimester 3: 31 August 2014

It is compulsory for the Damelin Correspondence College learner to submit at least 3 assignments per subject by the closing date as determined by the Damelin Correspondence College Formative Assessment and Tutorial Support Department, which is then marked by a tutor. The learner must pass all the assignments in order to obtain a term mark for that technical subject. A learner cannot register for the exam without a term mark.

Provisional Closing Dates for Exam Registration
Trimester 1: 10 February 2014
Trimester 2: 1 June 2014
Trimester 3: 1 September 2014

The above dates are provisional, and may change. Please consult www.dcc.edu.za/technical/national-technical-certificate/ for the final 2014 dates.

Exam Registration Fees
Fees paid to Damelin Correspondence College are for tuition only. In addition to these tuition fees, it is necessary for you to pay examination fees directly to the Public Further Education and Training College where you will be registering. The cost of exam registration is determined by the relevant Public Further Education and Training College.

Notification of National Certificate Exam Registration
The Notification of Exam Registration form must be completed by learners after they have registered with the relevant Public Further Education and Training College, and must be returned to Damelin Correspondence College. A copy of this form is available on the following website: http://www.dcc.edu.za/technical/national-technical-certificate.
Contact Details of FET Colleges

A list of contact details of Public Further Education and Training Colleges that might be offering the National Certificate exams may be obtained from Damelin Correspondence College, but it is a learner’s responsibility to acquire a venue.

EXAM Time Table for 2014

The Time Table has been issued by the Department of Higher Education and Training to the relevant Public Further Education and Training Colleges who are authorised to manage the exams. Please note that this is subject to change. The Damelin Correspondence College learners must be sure that they are aware of the exam dates, and any changes made. The Time Table is available on the following website: www.dcc.edu.za/technical/national-technical-certificate.

Exemption Process on a subject level

The exemption process is determined by the Department of Higher Education and Training (DHET). Students must have their academic record from their previous institutions to be evaluated to determine if they qualify for any exemptions. The College will forward the application to the DHET on behalf of the student. The application form is available on request.

Exemption Application Form

Exemption Application Forms are available on the following site: http://www.dcc.edu.za/technical/national-technical-certificate. Once you have filled in this form it must be sent to the following official from the Department of Higher Education and Training:

Mr. Gerald Moremi
222 Struben Street
Pretoria
0001

Please include the following documentation when submitting your application:

• A certified copy of your ID
• Results of the subjects that you have passed
• A payment of R50.00 per credit or subject to the DHET bank account
Learn to focus on the usage of water, water sources, supplies and the environment, water quality and treatment, waste water and sanitation.

Entrance Requirement
N1: Grade 9 (Std. 7) with Mathematics and Physical Science, or equivalent
N2: N1 National Certificate, or equivalent
N3: N2 National Certificate, or equivalent

Programme Type
The National Certificate in Engineering Studies is a National Qualification delivered under the auspices of the Department of Higher Education and Training.

The N1 to N3 Engineering Studies qualifications are registered on the NQF as follows:
- N1: SAQA ID 67109
- N2: SAQA ID 67375
- N3: SAQA ID 67491

Course Content
N1
- Water and Waste–water Treatment Practice
- Plant Operation Theory
- Mathematics

Choose one of the following:
- Engineering Science
- Engineering Drawing

N2
- Water and Waste–water Treatment Practice
- Plant Operation Theory
- Mathematics

Choose one of the following:
- Engineering Science
- Engineering Drawing

N3
- Water and Waste–water Treatment Practice
- Plant Operation Theory
- Mathematics
Choose one of the following:
- Engineering Science
- Engineering Drawing

Assessment
You will be assessed by means of Damelin Correspondence College assignments and Department of Higher Education and Training examinations. To qualify for a National Certificate, you are required to write an exam per subject for each level.

Award
On successful completion of your required exams for each level, you will be awarded the National Certificate: Engineering Studies by the Department of Higher Education and Training.
Learn what is required to install, maintain and repair electrical equipment. The law allows only qualified electricians to connect cables to electrical motors and switchgear as well as to handle electrical wiring of all electrically equipped buildings.

**Entrance Requirements**

N1: Grade 9 (Std. 7) with Mathematics and Physical Science, or equivalent.
N2: N1 National Certificate or equivalent.
N3: N2 National Certificate or equivalent.

**Programme Type**

The National Certificate in Engineering Studies is a National Qualification delivered under the auspices of the Department of Higher Education and Training.

The N1 to N3 Engineering Studies qualifications are registered on the NQF as follows:
- N1: SAQA ID 67109
- N2: SAQA ID 67375
- N3: SAQA ID 67491

**Course Content**

**N1**
- Electrical Trade Theory
- Mathematics
- Engineering Science

Choose one of the following:
- Industrial Electronics
- Engineering Drawing

**N2**
- Electrical Trade Theory
- Mathematics
- Engineering Science

Choose one of the following:
- Industrial Electronics
- Engineering Drawing

If you successfully pass NTC2 and also pass the “Practical Trade Test”, you will become a qualified electrician after having served for at least 18 months in the field.
National Certificate: N1-N3
Engineering Studies (Electrician)

N3
• Electrotechnology
• Mathematics
• Engineering Science

Choose one of the following:
• Industrial Electronics
• Engineering Drawing

By successfully completing NTC3 you put yourself on the road to becoming an Electrical Technician. To successfully become an Electrical Technician you will have to go on to complete an N3, N4, N5 and N6.

Assessment
You will be assessed by means of Damelin Correspondence College assignments and Department of Higher Education and Training Examinations. To qualify for a National Certificate, you are required to write an exam per subject for each level.

Award
Upon successful completion of your required exams for each level, you will be awarded your National Certificate: Engineering Studies by the Department of Higher Education and Training.
Electrical engineering is a field of engineering that generally deals with the study and application of electricity, electronics and electromagnetism.

Electrical Engineering is an exciting and dynamic field as these electrical engineers are responsible for the generation, transfer and conversion of electrical power. These sought-after engineers are in demand and contributes positively to the industry skills shortages.

**Entrance Requirements**
N4: Grade 12 with Mathematics and Physical Science or an appropriate National Certificate: N3 Engineering Studies
N5: An appropriate National Certificate: N4 Engineering Studies
N6: An appropriate National Certificate: N5 Engineering Studies

**Programme Type**
The National N Diploma in Engineering Studies is a National Qualification delivered under the auspices of the Department of Higher Education and Training.

The N4 to N6 Engineering Studies qualifications are registered on the NQF as follows:
- N4: SAQA ID 66881
- N5: SAQA ID 66960
- N6: SAQA ID 67005

**Course Content**

**N4**
- Mathematics
- Electrotechnics
- Logic Systems
- Industrial Electronics

**N5**
- Mathematics
- Electrotechnics
- Logic Systems
- Industrial Electronics

**N6**
- Mathematics
- Electrotechnics
- Logic Systems
- Industrial Electronics

**Assessment**
You will be assessed by means of Damelin Correspondence College assignments and Department of Higher Education and Training examinations. To qualify for a National Diploma, you are required to write an exam per subject for each level.

**Award**
Upon successful completion of your required exams for each level, you will be awarded your National Certificate: Engineering Studies by the Department of Higher Education and Training. In order to qualify for a National Diploma, you have to work 18 months in the field after achieving your N6.
National Certificate: N1-N3 Engineering Studies (Fitter and Turner/Toolmaker)

Equip yourself with the skills required to manufacture parts as well as to work according to specifications of engineering drawings and sketches. Become the person responsible for dismantling, inspecting, repairing and fitting together component parts such as gearboxes!

**Entrance Requirements**

N1: Grade 9 (Std. 7) with Mathematics and Physical Science, or equivalent.
N2: N1 National Certificate or equivalent.
N3: N2 National Certificate or equivalent.

**Programme Type**

The National Certificate in Engineering Studies is a National Qualification delivered under the auspices of the Department of Higher Education and Training.

The N1 to N3 Engineering Studies qualifications are registered on the NQF as follows:
- N1: SAQA ID 67109
- N2: SAQA ID 67375
- N3: SAQA ID 67491

**Course Content**

**N1**
- Fitting and Machining Theory
- Engineering Science
- Mathematics
- Engineering Drawing

**N2**
- Fitting and Machining Theory
- Engineering Science
- Mathematics
- Engineering Drawing

**N3**
- Mechanotechnology
- Engineering Science
- Mathematics
- Engineering Drawing

**Assessment**

You will be assessed by means of Damelin Correspondence College assignments and Department of Higher Education and Training Examinations. To qualify for a National Certificate, you are required to write an exam per subject for each level.

**Award**

Upon successful completion of your required exams for each level, you will be awarded your National Certificate: Engineering Studies by the Department of Higher Education and Training.
Enhance your ability to maintain, diagnose and repair mechanical and electrical faults of diesel vehicles, construction machinery and diesel engines!

Entrance Requirements
N1: Grade 9 (Std. 7) with Mathematics and Physical Science, or equivalent.
N2: N1 National Certificate or equivalent.
N3: N2 National Certificate or equivalent.

Programme Type
The National Certificate in Engineering Studies is a National Qualification delivered under the auspices of the Department of Higher Education and Training.

The N1 to N3 Engineering Studies qualifications are registered on the NQF as follows:
• N1: SAQA ID 67109
• N2: SAQA ID 67375
• N3: SAQA ID 67491

Course Content
N1
• Motor Trade Theory
• Mathematics
• Engineering Science
• Engineering Drawing

N2
• Diesel Trade Theory
• Mathematics
• Engineering Science
• Engineering Drawing

N3
• Diesel Trade Theory
• Mathematics
• Engineering Science
• Engineering Drawing

Assessment
You will be assessed by means of Damelin Correspondence College assignments and Department of Higher Education and Training Examinations. To qualify for a National Certificate, you are required to write an exam per subject for each level.

Award
Upon successful completion of your required exams for each level, you will be awarded your National Certificate: Engineering Studies by the Department of Higher Education and Training.
Master the art of maintenance and repair of motor cars, motorcycles, busses, trucks and other vehicles. Know how to diagnose faults and then select the best method to repair the vehicle. Become an expert in adjusting brakes, replacing shock absorbers, soldering leaks in radiators, replacing oil, oil filters and air filters.

**Entrance Requirements**

N1: Grade 9 (Std. 7) with Mathematics and Physical Science, or equivalent.
N2: N1 National Certificate or equivalent.
N3: N2 National Certificate or equivalent.

**Programme Type**

The National Certificate in Engineering Studies is a National Qualification delivered under the auspices of the Department of Higher Education and Training.

The N1 to N3 Engineering Studies qualifications are registered on the NQF as follows:

- N1: SAQA ID 67109
- N2: SAQA ID 67375
- N3: SAQA ID 67491

**Course Content**

**N1**
- Motor Trade Theory
- Mathematics
- Engineering Science
- Engineering Drawing

**N2**
- Motor Trade Theory
- Mathematics
- Engineering Science
- Engineering Drawing

**N3**
- Motor Trade Theory
- Mathematics
- Engineering Science
- Engineering Drawing
Assessment
You will be assessed by means of Damelin Correspondence College assignments and Department of Higher Education and Training Examinations. To qualify for a National Certificate and Engineering Studies, you are required to write an exam per subject for each level.

Award
Upon successful completion of your required exams for each level, you will be awarded your National Certificate: Engineering Studies by the Department of Higher Education and Training.
National N Diploma: Engineering Studies (Mechanical)

Mechanical Engineering is one of the broadest and diverse engineering disciplines. Mechanical Engineers will contribute positively to the critical shortage of skills, and the development of various engines, power plant equipment, heating and cooling systems and other simple and complex machinery. Mechanical engineers not only design new mechanical systems but they are also responsible for testing, maintaining and manufacturing them.

Entrance Requirements
N4: Grade 12 with Mathematics and Physical Science or an appropriate National Certificate: N3 Engineering Studies
N5: An appropriate National Certificate: N4 Engineering Studies
N6: An appropriate National Certificate: N5 Engineering Studies

Programme Type
The National N Diploma in Engineering Studies is a National Qualification delivered under the auspices of the Department of Higher Education and Training.

The N4 to N6 Engineering Studies qualifications are registered on the NQF as follows:
• N4: SAQA ID 66881
• N5: SAQA ID 66960
• N6: SAQA ID 67005

Course Content
N4
• Mathematics
• Engineering Science
• Mechanical Draughting
• Mechanotechnics

N5
• Mathematics
• Engineering Physics
• Mechanical Drawing and Design
• Mechanotechnics

N6
• Mathematics
• Engineering Physics
• Mechanical Drawing and Design
• Mechanotechnics

Assessment
You will be assessed by means of Damelin Correspondence College assignments and Department of Higher Education and Training examinations. To qualify for a National Diploma, you are required to write an exam per subject for each level.

Award
Upon successful completion of your required exams for each level, you will be awarded your National Certificate: Engineering Studies by the Department of Higher Education and Training. In order to qualify for a National Diploma, you have to work 18 months in the field after achieving your N6.
From the General Manager

Take your next step now!
Follow through on your decision to enhance your life and your future prospects by enrolling for a Damelin Correspondence College Nation N Certificate and Diploma: Engineering Studies course today!

Why study with Damelin Correspondence College?
• Quality study material designed specifically for home study.
• The freedom to study at YOUR own pace, where and when it suits YOU.
• The widest range of courses for today’s world.
• Free consultations with Damelin Correspondence College’s career counselling and development specialists.
• Free study choice advice from Damelin Correspondence College’s Student Consultants.
• The convenience of online enrolment, contact and advice.
• Affordable, easy payment options.
• Ongoing study support and attention from qualified tutors.

Umalusi Accreditation
Damelin Correspondence College (Pty) Ltd has been awarded provisional accreditation by Umalusi. Umalusi is the Council for Quality Assurance in General and Further Education and Training in South Africa - see www.umalusi.org.za
Umalusi Provisional Accreditation No: FET 00475 PA

DHET Registration
Damelin Correspondence College (Pty) Ltd has been granted provisional registration by the Department of Higher Education and Training as a private FET College, until 31 December 2014.
Provisional Registration No. 2008/FE07/037 - see www.dhet.gov.za.
For further information please refer to our website: www.dcc.edu.za.
Damelin Correspondence College (Pty) Ltd is committed to meeting legislative requirements regarding accreditation and registration of private education and training providers in South Africa.

Wishing you every success in your studies and your future!

Ajanth Choudhree
Damelin Correspondence College General Manager
Register Today!

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