National Certificate Engineering Studies (N1 – N3)  Page
Civil Engineering  1
Electrical Engineering  2
Boiler Making (Welding)  3
Mechanical Engineering  10

National Diploma Engineering Studies (N4 – N6)
N.B A student will qualify for a National N Diploma in Engineering studies on completion of a minimum of 12 subjects, ranging from N4 - N6, together with a minimum of 2 years in-service training.
The College assists students with in service training as part of the learner support programme.

Electrical Engineering Heavy Current (N4 – N6)  4
Civil Engineering (N4 – N6)  6
Mechanical Engineering (N4 – N6)  7
Chemical Engineering (N4 – N6)  5
National Certificate Vocational (NCV)  8
Electrical Infrastructure Construction (Level 2 – 4)  8

TIP If you intend to do N3 and N4 for the first time it’s strongly advisable to study for 5 months this will enable you to have enough time in order to pass. Then you can do the other levels for 2.5 months each. Fees for the 5 months period have been worked out. See page 3.

Entrance requirements: Grade 9 or its equivalent
Duration: 9 months
A student will qualify for a National N Certificate in Electrical Engineering on completion of a minimum of 4 subjects on N3 Level.

Certification Body:
The N Certificate is issued by the National Department of Education and is recognized by Commerce and Industry.

Syllabus
First trimester (N1 Subjects)
- Math/ Industrial Orientation
- Engineering Science
- Industrial Electronics
- Electric Trade Theory
Second trimester (N2 Subjects)
- Mathematics /Industrial Orientation
- Engineering Science
- Industrial Electronics
- Electric Trade Theory
Third trimester (N3 Subjects)
- Math/ Supervision in Industry
- Engineering Science/ Industrial Orientation
- Industrial Electronics/ Electric Trade Theory
- Electro Technology/ Industrial organization & Planning

Fees: see fees table page 9

To register on line see page 11
**Entrance requirements:** Grade 9 or its equivalent

**Duration:** 9 months

**Award:** A student will qualify for a National N Certificate in Civil Engineering on completion of a minimum of 4 subjects on N3 Level.

**Certification Body:**
The N Certificate is issued by the National Department of Education and is recognized by Commerce and Industry.

**First trimester (N1 Subjects)**
Mathematics / Industrial Orientation
Building Science
Building Drawing
Plumbing Theory / Bricklaying and Plastering theory

**Second trimester (N2 Subjects)**
Mathematics / Industrial Orientation
Building Science
Building Drawing
Plumbing Theory / Bricklaying and Plastering theory

**Third trimester (N3 Subjects)**
Mathematics / Industrial Orientation
Building Science / Supervision in Industry
Building Drawing / Industrial organization & Planning
Building and civil technology

**National Certificate Engineering Studies (Boiler making) (welding) N1 - N3**

**Entrance requirements:** Grade 9 or its equivalent

**Duration:** 9 months

This course provides the learner with accessibility to be employed within the Engineering field **Boiler making (welding)** and provides the flexibility to pursue different careers across various industry sectors and articulate within industries such as:

- Boiler making
- Maintenance
- Other related construction industry sectors.

**Award:** A student will qualify for a National N Certificate in Engineering Studies on completion of a minimum of 4 subjects on N3 Level.

**Certification Body:**
The N Certificate is issued by the National Department of Education and is recognized by Commerce and Industry.

**First trimester (N1 Subjects)**
Mathematics
Engineering Science
Plating & structural Steel Drawing
Metal work theory

**Second trimester (N2 Subjects)**
Mathematics
Engineering Science
Plating & structural Steel Drawing
Platers Theory (Boilermaking)
Welders Theory (Welding)

**Third trimester (N3 Subjects)**
Mathematics
Engineering Science
Plating & structural Steel Drawing
Mechanotechnology

**Fees:** see fees table page 9

To register online see page 11
National Certificate Engineering Studies (Electrical Engineering – Heavy Current) N4 – N6

Entrance requirements: Grade 12 or its equivalent
Duration: 9 months

Award:
A student will qualify for a National N Diploma Engineering Studies (Electrical Engineering) on completion of a minimum of 12 subjects, ranging from N4 to N6, together with a minimum of two years in-service training. The College assists students with the in-service training as part of the learner support programme.

Certification Body:
The N Diploma is issued by the National Department of Education and is recognized by Commerce and Industry.

First trimester (N4 Subjects)
(A learner can choose 4 subjects from the following):
- Math
- Industrial Electronics
- Electrotechnics
- Electric Trade Theory
- Engineering Science
- Logic Systems
- Fault Finding and protective devices
- Industrial Instruments
- Computer Principles
- Communication

Second trimester (N5 Subjects)
(A learner can choose 4 subjects from the following):
- Math (B)
- Industrial Electronics
- Engineering Physics
- Electrotechnics
- Logic Systems
- Fault Finding and protective devices
- Industrial Instruments
- Industrial Electronics
- Computer Principles

Third trimester (N6 Subjects)
(A learner can choose 4 subjects from the following):
- Math (B)
- Industrial Electronics
- Engineering Physics
- Electrotechnics
- Logic Systems
- Fault Finding and protective devices
- Industrial Instruments
- Industrial Electronics
- Computer Principles

To register online see page 11

Fees: see fees table page 9

Dam Technical College. www.damtraining.co.za page 4

National Diploma in Engineering Studies (Chemical Engineering) N4 – N6

Entrance requirements: Grade 12 or its equivalent
Duration: 9 months

Award:
A student will qualify for a National N Diploma Engineering Studies Chemical Engineering on completion of a minimum of 12 subjects, ranging from N4 to N6, together with a minimum of two years in-service training. The College assists students with the in-service training as part of the learner support programme.

Certification Body:
The N Diploma is issued by the National Department of Education and is recognized by Commerce and Industry.

First trimester (N4 Subjects)
- Chemistry
- Chemical Plant operation
- Production and quality control
- Engineering Science
- Mathematics
- Computer Principles
- Communication

Second trimester (N5 Subjects)
- Chemical Plant operation
- Mathematics
- Engineering Physics
- Production and quality control
- Computer Principles

Third trimester (N6 Subjects)
- Chemical Plant operation
- Mathematics
- Production and quality control
- Engineering Physics
- Chemical Technology
- Computer Principle

To register online see page 11

Fees: see fees table page 9

Dam Technical College. www.damtraining.co.za page 5
National Diploma in Engineering Studies
(Civil Engineering) N4 – N6

Entrance requirements: Grade 12 or its equivalent
Duration: 9 months

Award:
A student will qualify for a National N Diploma Engineering Studies (Civil Engineering) on completion of a minimum of 12 subjects, ranging from N4 to N6, together with a minimum of two years in-service training. The College assists students with the in-service training as part of the learner support programme.

Certification Body:
The N Diploma is issued by the National Department of Education and is recognized by Commerce and Industry.

Syllabus

First trimester (N4 Subjects)
(A learner can choose 4 subjects from the following)
- Mathematics
- Quantity Surveying
- Building and Structural Surveying
- Building and Structural Construction
- Building Administration
- Computer Principles

Second trimester (N5 Subjects)
(A learner can choose 4 subjects from the following)
- Mathematics
- Quantity Surveying
- Building and Structural Surveying
- Building and Structural Construction
- Building Administration
- Computer Principles

Third trimester (N6 Subjects)
(A learner can choose 4 subjects from the following)
- Mathematics
- Quantity Surveying
- Building and Structural Surveying
- Building and Structural Construction
- Building Administration
- Computer Principles

Fees: see fees table page 9

To register online see page 11

To register online see page 11

National Diploma in Engineering Studies
(Mechanical Engineering) N4 – N6

Entrance requirements: Grade 12 or its equivalent
Duration: 9 months

Award:
A student will qualify for a National N Diploma Engineering Studies (Mechanical Engineering) on completion of a minimum of 12 subjects, ranging from N4 to N6, together with a minimum of two years in-service training. The College assists students with the in-service training as part of the learner support programme.

Certification Body:
The N Diploma is issued by the National Department of Education and is recognized by Commerce and Industry.

Syllabus

First trimester (N4 Subjects)
(A learner can choose 4 subjects from the following)
- Mathematics
- Engineering Science
- Mechanical Draughting
- Mechatronics
- Motor Vehicle Science
- Computer Principles
- Supervisory Management

Second trimester (N5 Subjects)
(A learner can choose 4 subjects from the following)
- Mathematics
- Engineering Physics
- Mechatronics
- Mechanical Drawing and design
- Strength of Materials and structures
- Fluid Mechanics
- Power Machines
- Computer Principles
- Supervisory Management

Third trimester (N6 Subjects)
(A learner can choose 4 subjects from the following)
- Mathematics
- Engineering Physics
- Mechanical Drawing and design
- Mechatronics
- Strength of Materials and structures
- Fluid Mechanics
- Power Machines
- Computer Principles
- Supervisory Management

To register online see page 11
Duration: 3 Years (1 year per Level)

Admission requirements:
Level 2 – Grade 9 or Level 1
Level 3 – Level 2 qualification
Level 4 – Level 3 qualification

Introduction
The Electrical Infrastructure Construction programme covers heavy current, overhead power lines as well as domestic, civil and industrial industries. Light current in the form of digital and electronics in the communications, industrial electronics and sound engineering fields as well as instrumentation. This course integrates academic knowledge and theory with practical skills and values.

Level 2 – 4 Fundamental subjects (compulsory)
- English
- Mathematics or Mathematical Literacy
- Life Orientation

Level 2 – 4

<table>
<thead>
<tr>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Principles &amp; Practice</td>
<td>Electrical Principles &amp; Practice</td>
<td>Electrical Principles &amp; Practice</td>
</tr>
<tr>
<td>Electrical Control &amp; Digital Electronics</td>
<td>Electrical Control &amp; Digital Electronics</td>
<td>Electrical Control &amp; Digital Electronics</td>
</tr>
<tr>
<td>Workshop Practices</td>
<td>Electrical Workmanship</td>
<td>Electrical Workmanship</td>
</tr>
</tbody>
</table>

Career opportunities:
Electrical engineering
Power distribution
Generation and transmission

FEES

<table>
<thead>
<tr>
<th></th>
<th>Full – Time and Part – time Fees 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N1 - N6</td>
</tr>
<tr>
<td>Registration</td>
<td>R250</td>
</tr>
<tr>
<td>Deposit</td>
<td>R800</td>
</tr>
<tr>
<td>monthly</td>
<td>R750 x 2</td>
</tr>
<tr>
<td>Stu. Card</td>
<td>R40</td>
</tr>
<tr>
<td>Total</td>
<td>R2590</td>
</tr>
<tr>
<td>Cash</td>
<td>R2360</td>
</tr>
<tr>
<td>Repeating</td>
<td>Discount R150 per subject</td>
</tr>
<tr>
<td>Write only</td>
<td>R250 per subject. Plus Registration fee</td>
</tr>
<tr>
<td>Fees per Subj.</td>
<td>R790 plus Registration fee.</td>
</tr>
</tbody>
</table>

N.B If a learner decides to do N4 for 5 months and registers for N4 – N6 the number of Installments will be increased to 12 of R700 each.
National Certificate Engineering Studies
Mechanical Engineering - N1 - N3

Entrance requirements: Grade 9 or its equivalent

Duration: 9 months

A student will qualify for a National N Certificate in Mechanical Engineering on completion of a minimum of 4 subjects on N3 Level.

Certification Body:
The N Certificate is issued by the National Department of Education and is recognized by Commerce and Industry.

Syllabus

First trimester (N1)
- Mathematics
- Engineering Science
- Engineering Drawing
- Motor Trade Theory (A)/ Fitting and Machining Theory

Second trimester
- Mathematics
- Motor Trade Theory / Motor Machining Theory
- Engineering Science
- Engineering Drawing

Third trimester
- Mathematics / Supervision in Industry
- Engineering Science
- Engineering Drawing
- Motor Trade Theory / Motor Machining Theory

PROCESSSESS TO FOLLOW WHEN REGISTERING ONLINE
To register online you get a discount of 15% of the deposit if you intend to study full time or part time. E.g. if the Deposit for the course is R1600 you pay R1360.

Step 1. Fill the Application form online and then submit. You can access the application form from the home page On the Title bar.

Step 2. Your application will then be processed within 2 working days.

Step 3. If your application is successful and hence you have been admitted into a programme of Study this information will be communicated to you and a student number will be allocated to you, then you can proceed to pay the minimum amount required for the Registration.

In case you want to study by correspondence, you will have to pay the amount required in order to dispatch your reading materials.

Also details of the examination registration and deadline will be communicated to you.

When making payments you will use the following accounting details

Don’t fax or e-mail your deposit slip, you should just make sure your student number is properly written on the deposit slip. Then the money paid will be allocated to your account.

Account Details

<table>
<thead>
<tr>
<th>Bank</th>
<th>ABSA (Cheque A/C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Branch No.</td>
<td>508005</td>
</tr>
<tr>
<td>Branch Name</td>
<td>JAN SMUTS</td>
</tr>
<tr>
<td>Account Holder</td>
<td>DAM Technical College</td>
</tr>
<tr>
<td>Account Number</td>
<td>4060972140</td>
</tr>
<tr>
<td>Reference</td>
<td>Student Number</td>
</tr>
</tbody>
</table>

Dam Technical college. www.damtraining.co.za