

| SUBJECTS | LEVELS | | | NB: N2 LEVEL: SPECIALISATION SUBJECT CHOSEN IN N1 MUST BE CONTINUED WITH |
|---|--------|----|----|---|
| | N1 | N2 | N3 | |
| Building Science | ▼ | ▼ | ▼ | |
| Building Drawing | ▼ | ▼ | ▼ | |
| Mathematics | ▼ | ▼ | ▼ | |
| Carpentry & Joinery/Plumbing Theory/Bricklaying & Plastering Theory/Building & Civil Technology | ▼ | ▼ | ▼ | |

CIVIL ENGINEERING: N4-N6

| SUBJECTS | LEVELS | | |
|------------------------------------|--------|----|----|
| | N4 | N5 | N6 |
| Building Administration | ▼ | ▼ | ▼ |
| Building & Structural Construction | ▼ | ▼ | ▼ |
| Building & Structural Survey | ▼ | ▼ | ▼ |
| Quantity Surveying | ▼ | ▼ | ▼ |

Admission Requirements:

- Certificate only - N3
- N3 - N4
- N4 - N5
- N5 - N6

Enrolments:

- January, May and August

National Diploma:

N6 + proof of 24 months experience in a relevant practical field after completion of N6, is required to obtain a Diploma.

Duration of course:

N4-N6 trimester per level

| Site of Delivery: | Pretoria West | Atteridgeville | Centurion | Odi |
|-------------------|---------------|----------------|-----------|-----|
| Mechanical | • | | • | • |
| Electrical | • | • | • | • |
| Civil | | • | | • |

NSFAS Report 191 Bursary Scheme
Bursaries available to all qualifying students.

Contact details:

| | | |
|------------------------|----------------------|-------------------|
| Atteridgeville: | Tel: 012 373 8030/1, | Fax: 012 373 8032 |
| Pretoria West: | Tel: 012 380 5000, | Fax: 012 386 1245 |
| Centurion: | Tel: 012 660 8549, | Fax: 012 660 8514 |
| Odi: | Tel: 012 725 1800, | Fax: 012 702 5752 |

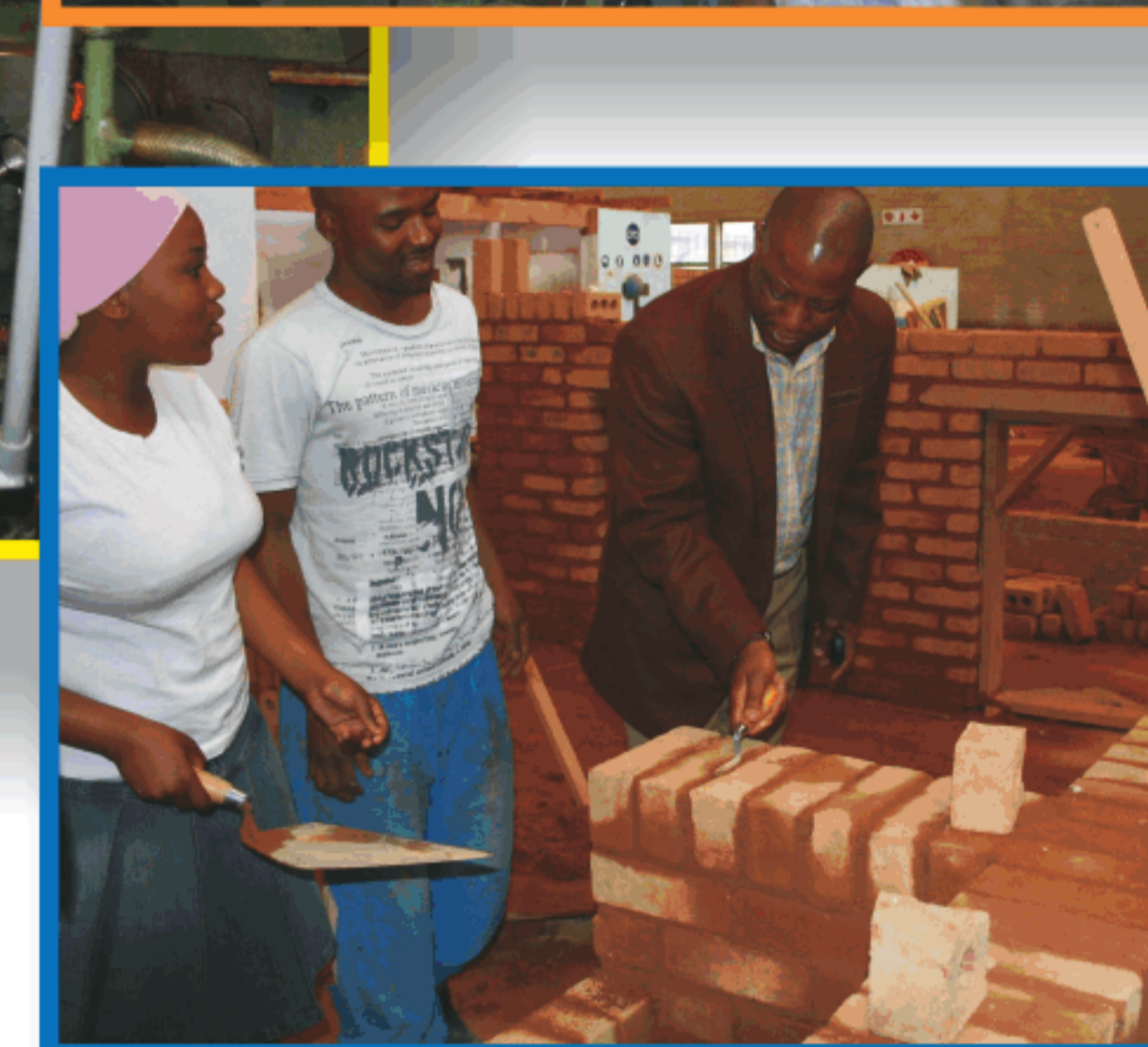
Website: www.tsc.edu.za



TSHWANE SOUTH COLLEGE

FOR FURTHER EDUCATION AND TRAINING

"achieve the future"



VISION

To be a world class Further Education and Training College.

MISSION

Tshwane South College empowers learners through high quality vocational education and training.

VALUES

- Excellence - in all we do
- Fairness - in all our dealings
- Respect - towards one another
- Trust - in one another
- Integrity - in our ethical behaviour

Please Note: Information is subject to change without prior notice

mjc/engbroc/2011



higher education
& training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA



TSHWANE SOUTH COLLEGE

FOR FURTHER EDUCATION AND TRAINING

"achieve the future"

ENGINEERING STUDIES

| SYMBOL | CAMPUS | SYMBOL | CAMPUS |
|--------|----------------|--------|---------------|
| • | Atteridgeville | ◆ | Odi |
| ■ | Centurion | ○ | Pretoria West |

ENGINEERING STUDIES

ELECTRICAL: HEAVY CURRENT N1-N3

MINIMUM QUALIFICATIONS: N2 Applicable N1 Certificate with four subjects
N3 Applicable N2 Certificate with four subjects

| SUBJECTS | LEVELS | | | A National Certificate is issued per level when four subjects per level have been completed successfully. The pass mark is 40% per subject |
|-------------------------|--------|----|----|--|
| | N1 | N2 | N3 | |
| Electrical Trade Theory | ▼ | ▼ | | |
| Electrotechnology | | | ▼ | |
| Industrial Electronics | ▼ | ▼ | ▼ | |
| Mathematics | ▼ | ▼ | ▼ | |
| Engineering Science | ▼ | | | |
| Logic Systems | | ▼ | ▼ | |

ELECTRICAL: HEAVY CURRENT N4-N6

MINIMUM QUALIFICATIONS: N4 Applicable National N3 Certificate with four subjects or a Senior Certificate in an applicable technical discipline.
N5 Applicable Certificate with four subjects
N6 Applicable N5 Certificate with four subjects

| SUBJECTS | LEVELS | | | A learner must select four out of the five subjects indicated. The Pre-requisite for Fault Finding and Protective Device N4 and Digital Electronics N4 is Logic Systems N3. A National Certificate is issued per level when four subjects per level have been completed successfully. The pass mark is 40% per subject |
|-------------------------------------|--------|----|----|--|
| | N4 | N5 | N6 | |
| Electrotechnics | ▼ | ▼ | | |
| Fault Finding and Protective Device | ▼ | ▼ | ▼ | |
| Industrial Electronics | ▼ | ▼ | ▼ | |
| Mathematics | ▼ | ▼ | ▼ | |
| Digital Electronics | ▼ | | | |

ELECTRICAL: LIGHT CURRENT N1-N3 RADIO & TELEVISION

MINIMUM QUALIFICATIONS: N2 Applicable N1 Certificate with four subjects
N3 Applicable N2 Certificate with four subjects

| SUBJECTS | LEVELS | | | A National Certificate is issued per level when four subjects per level have been completed successfully. The pass mark is 40% per subject |
|---------------------------|--------|----|----|--|
| | N1 | N2 | N3 | |
| Radio & Television Theory | ▼ | ▼ | ▼ | |
| Logic Systems | | ▼ | ▼ | |
| Industrial Electronics | ▼ | ▼ | ▼ | |
| Mathematics | ▼ | ▼ | ▼ | |
| Engineering Science | ▼ | | | |

ELECTRICAL: LIGHT CURRENT N4-N6

MINIMUM QUALIFICATIONS: N4 Applicable National N3 Certificate with four subjects or a Senior Certificate in an applicable technical discipline.
N5 Applicable Certificate with four subjects
N6 Applicable N5 Certificate with four subjects

| SUBJECTS | LEVELS | | | A learner must select four out of the five subjects indicated. The Pre-requisite for Computer Principles N4 and Digital Electronics N4 is Logic Systems N3 and Computer Principles N4 should be taken with Digital Electronics N4. A National Certificate is issued per level when four subjects per level have been completed successfully. The pass mark is 40% per subject |
|---------------------------|--------|----|----|---|
| | N4 | N5 | N6 | |
| Communication Electronics | ▼ | ▼ | ▼ | |
| Digital Electronics | ▼ | ▼ | ▼ | |
| Industrial Electronics | ▼ | ▼ | ▼ | |
| Mathematics | ▼ | ▼ | ▼ | |
| Computer Principles | ▼ | ▼ | ▼ | |

ELECTRICAL: LIGHT CURRENT N1-N3 INSTRUMENTATION

MINIMUM QUALIFICATIONS: N2 Applicable N1 Certificate with four subjects
N3 Applicable N2 Certificate with four subjects

| SUBJECTS | LEVELS | | | Learners on the N1 level will take Radio and Television Theory to make up the four subjects. A National Certificate is issued per level when four subjects per level have been completed successfully. The pass mark is 40% per subject |
|---|--------|----|----|---|
| | N1 | N2 | N3 | |
| Radio & Theory or Electrical Trade Theory | ▼ | | | |
| Instrument Trade Theory | | ▼ | ▼ | |
| Logic Systems | | ▼ | ▼ | |
| Industrial Electronics | ▼ | ▼ | ▼ | |
| Mathematics | ▼ | | | |
| Engineering Science | ▼ | | | |

ELECTRICAL: LIGHT CURRENT N4-N6 INSTRUMENTATION

MINIMUM QUALIFICATIONS: N4 Applicable National N3 Certificate with four subjects or a Senior Certificate in an applicable technical discipline.
N5 Applicable Certificate with four subjects
N6 Applicable N5 Certificate with four subjects

| SUBJECTS | LEVELS | | | A learner must select four out of the five subjects on the N6 level. A National Certificate is issued per level when four subjects per level have been completed successfully. The pass mark is 40% per subject |
|----------------------------|--------|----|----|---|
| | N4 | N5 | N6 | |
| Industrial Instrumentation | ▼ | ▼ | ▼ | |
| Digital Electronics | ▼ | ▼ | ▼ | |
| Industrial Electronics | ▼ | ▼ | ▼ | |
| Mathematics | ▼ | ▼ | ▼ | |
| Control Systems | | | ▼ | |

MECHANICAL: FITTING AND MACHINING N1-N3

MINIMUM QUALIFICATIONS: N2 Applicable N1 Certificate with four subjects
N3 Applicable N2 Certificate with four subjects

| SUBJECTS | LEVELS | | | A National Certificate is issued per level when four subjects per level have been completed successfully. The pass mark is 40% per subject |
|------------------------------------|--------|----|----|--|
| | N1 | N2 | N3 | |
| Fitting & Machining Theory | ▼ | ▼ | | |
| Mechanotechnology | | | ▼ | |
| Engineering Drawing | ▼ | ▼ | ▼ | |
| Mathematics | ▼ | ▼ | ▼ | |
| Engineering Science | ▼ | ▼ | ▼ | |
| Plating & Structural Steel Drawing | ▼ | ▼ | ▼ | |
| Plater's Theory | ▼ | ▼ | ▼ | |

MECHANICAL: FITTING AND MACHINING N4-N6

MINIMUM QUALIFICATIONS: N4 Applicable National N3 Certificate with four subjects or a Senior Certificate in an applicable technical discipline.
N5 Applicable Certificate with four subjects
N6 Applicable N5 Certificate with four subjects

| SUBJECTS | LEVELS | | | The Pre-requisite for Strengths and Structures of Material N5 is Engineering Science N4, the pre-requisite for Power Machines and Fluid Mechanics is Mathematics N4, and the pre-requisite for Mechanical Drawing and Design N5 is Mechanical Draughting N4. It must be noted that Fluid Mechanics N5 and N6 is not always on offer for full time studies. However, should enough enrolments be received the subject will be offered. A National Certificate is issued per level when four subjects per level have been completed successfully. The pass mark is 40% per subject |
|---------------------------------------|--------|----|----|--|
| | N4 | N5 | N6 | |
| Mathematics | ▼ | ▼ | ▼ | |
| Mechanotechnics | ▼ | ▼ | ▼ | |
| Engineering Science | ▼ | | | |
| Strengths and Structures of Materials | | ▼ | ▼ | |
| Fluid Mechanics | | ▼ | ▼ | |
| Power Machines | | ▼ | ▼ | |
| Mechanical Draughting | ▼ | | | |
| Mechanical Drawing & Design | | ▼ | ▼ | |

MECHANICAL: N1-N3 MOTOR OR DIESEL

MINIMUM QUALIFICATIONS: N2 Applicable N1 Certificate with four subjects
N3 Applicable N2 Certificate with four subjects

| SUBJECTS | LEVELS | | | Diesel Trade Theory and Motor Trade Theory may not be taken together on the N2 & N3 Level. A Learner will have a choice of Engineering Drawing and Industrial Electronics, but these may not be taken together. A National Certificate is issued per level when four subjects per level have been completed successfully. The pass mark is 40% per subject |
|---|--------|----|----|--|
| | N1 | N2 | N3 | |
| Motor Trade Theory | ▼ | ▼ | ▼ | |
| Diesel Trade Theory | | ▼ | ▼ | |
| Engineering Drawing or Industrial Electronics | ▼ | ▼ | ▼ | |
| Mathematics | ▼ | ▼ | ▼ | |
| Engineering Science | ▼ | ▼ | ▼ | |

| LEVEL | NUMBER OF SUBJECTS | | |
|-------|--------------------|------------|------------|
| | SCENARIO 1 | SCENARIO 2 | SCENARIO 3 |
| N4 | 4 | 5 | 4 |
| N5 | 4 | 4 | 5 |
| N6 | 4 | 3 | 3 |
| TOTAL | 12 | 12 | 12 |

CIVIL ENGINEERING: N1-N3

MINIMUM QUALIFICATIONS: N2 Applicable N1 Certificate with four subjects
N3 Applicable N2 Certificate with four subjects