

MECHANICAL ENGINEERING

NATIONAL CERTIFICATE (VOCATIONAL) ENGINEERING & RELATED DESIGN LEVEL 2 - 4

Programme structure:

Level 2 - 4 Fundamentals (compulsory)

- Language
- Mathematics
- Life Orientation

Level 2 Vocational subjects

- Engineering Fundamentals
- Engineering Technology
- Engineering Systems
- Fitting & Turning OR Automotive Repairs & Maintenance OR Engineering Fabrication (Welding, Boilermaking, Sheetmetal) OR Physical Science

Level 3 Vocational subjects

- Engineering Practice & Maintenance
- Material Technology
- Engineering Graphics & Design (CAD)
- Fitting & Turning OR Automotive Repairs & Maintenance OR Engineering Fabrication (Welding, Boilermaking, Sheetmetal) OR Physical Science

Level 4 Vocational subjects

- Engineering Processes
- Professional Engineering Practice
- Applied Engineering Technology
- Fitting & Turning OR Automotive Repairs & Maintenance OR Engineering Fabrication (Welding, Boilermaking, Sheetmetal) OR Physical Science

Admission requirements:

- Level 2: Grade 9
- Level 3: Level 2 qualification or equivalent
- Level 4: Level 3 qualification or equivalent

Duration:

3 years full-time (1 year per level)

Career options:

- Fitting & Turning (Thornton)
- Manufacturing & Industrial Engineering

Automotive Repairs & Maintenance (Athlone)

- Car manufacture
- Automotive repair
- Motor mechanics

MECHANICAL ENGINEERING AND MOTOR MECHANICS

Engineering Fabrication - Welding, Boilermaking, Structural Steel, Sheetmetal Worker (Thornton)

- Mechanical and Industrial Engineering

Location:

Athlone Campus

(Motor, Diesel)

Corner of Protea & Eland Street, Athlone

Tel: 021 637 9183

Thornton Campus

(Sheetmetal, Welding, Boilermaking, Fitting & Turning)

Corner of Cedar & Poplar Road, Thornton

Tel: 021 531 9124

MECHANICAL ENGINEERING FOUNDATION COURSE (THORNTON)

Programme structure:

- Fundamental Mathematics
- Fundamental Science
- Fundamental Drawing
- Fundamental Technology

Admission requirements:

- Grade 12 or equivalent qualification with Mathematics and Science

Duration:

11 weeks (offered 1st and 2nd trimester only)

MECHANICAL ENGINEERING COURSES: N4 CERTIFICATE (THORNTON)

Programme structure:

- Mathematics
- Engineering Science
- Mechanical Drawing
- Mechanotechnology

Admission requirements:

- N3 Certificate or equivalent qualification

Duration:

10 weeks full-time

MECHANICAL ENGINEERING AND MOTOR MECHANICS

MECHANICAL ENGINEERING COURSES: N5 - N6 CERTIFICATE (THORNTON)

Programme structure:

- Power Machines
- Strength of Materials & Structures
- Mechanotechnology
- Fluid Mechanics

Admission requirements:

- N5: N4 Certificate or equivalent qualification
- N6: N5 Certificate or equivalent qualification

Duration:

10 weeks full-time

NOTE: Programmes are offered part-time and through distance learning. For part-time and distance learning, please contact the Pinelands Campus at 021 531 2105.

PRACTICAL PROGRAMMES

- Automotive Electrician - CBMT Training (Athlone)
- Motor Mechanics - CBMT Training (Athlone)
- Fitting & Turning (Thornton)
- Welding (Thornton)

Duration:

10 weeks

NATIONAL N-DIPLOMA

Admission requirements:

- 12 prescribed subjects
- 2 years in-service training

Location:

Thornton Campus

(Sheetmetal, Welding, Boilermaking, Fitting & Turning)
Corner of Cedar & Poplar Road, Thornton
Tel: 021 531 9124