



ENGINEERING AND RELATED DESIGN

This career-focused matric is for you if you are interested in the engineering industry and includes **manufacturing, mining, car manufacturing and petrochemical industries.**

The programme:

- follows the NCV curriculum;
- provides you with essential industry-related skills;
- gives you simulated practical and work experience to improve your employability after matric, and
- is predominantly skills-focused and integrates with academic knowledge.

Curriculum

- English First Additional Language
- Life Orientation
- Mathematics or Mathematical literacy

Compulsory subjects:

- Engineering Fundamentals (Level 2)
- Engineering Systems (Level 2)
- Engineering Technology (Level 2)
- Engineering Practice and Maintenance (Level 3)
- Engineering Graphics and Design (Level 3)
- Materials Technology (Level 3)
- Applied Engineering Technology (Level 4)
- Engineering Processes (Level 4)
- Professional Engineering Practice (Level 4)

Choose any one of the following:

- Engineering Fabrication (boilermaking or sheet-metal work)
- Fitting and Turning
- Physical Sciences
- Refrigeration Principles
- Welding

Contact details:

 cpc@curro.co.za

www.curro.co.za

#Learners2Leaders

QUICK FACTS

- Learners who complete this qualification could pursue careers, further their studies or become **artisans in the mechanical engineering sector.**
- This provides you with essential industry-related skills, simulated practical and work experience and **improve your employability** post qualification.
- **Entry requirements:** Grade 9 pass and minimum of 50% for Mathematics.

What can I do with an NCV 4 in Engineering and Related Design?

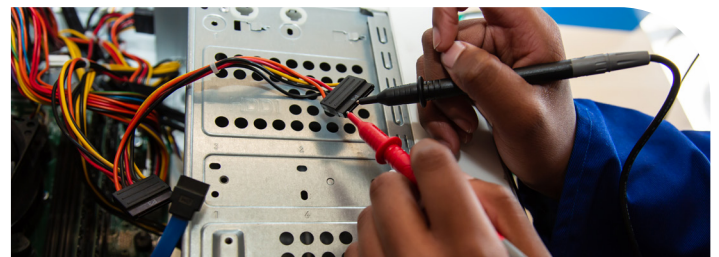
- Go to university or other tertiary education institutions
- Start working after matric
- Start my own venture

Programme information

The Engineering and Related Design programme exposes learners to the basic industrial environment, engineering principles, as well as engineering systems, activities and processes.

What will I learn?

- The design and construction of buildings
- Manufacturing of tools, machines and engines
- Operation and maintenance of machines
- Extraction of metallic and non-metallic minerals
- Design of shaft and ventilation systems
- Interpretation and production of engineering drawings, maps, sketches, and computer-aided design (CAD)
- Extra tools, equipment, methods and processes to produce components



Entry requirements

- Grade 9 pass (minimum of 50% for Mathematics)
- NQF Level 1 qualification

Qualification

National Certificate Vocational NQF Levels 2, 3 and 4

SAQA ID Level 2: 50440; SAQA ID Level 3: 50442 SAQA ID Level 4: 50441
Accreditation body: Umalusi. Each level takes one year to complete.