



## PROCESS INSTRUMENTATION

This career-focused matric is for you if you are interested in the **industrial and engineering fields**. Career opportunities include instrumentation engineer, process technician and instrumentation artisan.

### The programme:

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

### Curriculum

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

### Compulsory subjects:

#### NCV 2

- Engineering Fundamentals
- Electronic Control and Digital Electronics
- Physical Sciences
- Instrumentation Technology

#### NCV 3

- Engineering Practice and Maintenance
- Electronic Control and Digital Electronics
- Physical Sciences
- Instrumentation Technology

#### NCV 4

- Engineering Processes
- Electronic Control and Digital Electronics
- Physical Sciences
- Instrumentation Technology

### Contact details:

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**#Learners2Leaders**

## QUICK FACTS

- It is ideal for careers where you are responsible for planning, installing, monitoring and maintaining control **systems and machinery in manufacturing environments**.
- 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 Process Instrumentation?

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

### Programme information

The Process Instrumentation programme is designed to provide the theory and practice of different processing environments. Learners who complete this qualification will have a good understanding of the science of measurement and control of the process variables within a production or manufacturing area.

### What will I learn?

- Calibration of instrumentation equipment
- Installation and removal of instrumentation equipment
- Optimisation of process control loops
- Fault-finding and repair of instrumentation equipment
- Maintenance of instrumentation equipment



### 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.