



THE
LEARNING
DEVELOPMENT
GROUP

Introduction

The NC: Production Technology, NQF level 3, is the second in a series of three occupational qualifications for individuals working in manufacturing, engineering and production technology environments.

Individuals will build on the knowledge acquired in the NC: Production Technology Level 2. They will gain more depth of knowledge and practical skills in production technology processes, practices and systems and maintenance and identifying irregularities in production. They will also cover logistics support, applying quality controls and safety, health and environmental protection procedures, planning and scheduling production tasks and working in a project team.

Within the structure of the qualification that includes Core and Fundamental Modules, there are two elective specialisation pathways from which to select.

It offers a career path in Production Technology and entry to the National Certificate: Production Technology Level 4.

Target Audience

The qualification is aimed at individuals working in production, manufacturing and allied industries.

It offers career progression in areas of production technology such as production planning and control, systems and maintenance, quality control and occupational health and safety.

It is an ideal programme for working in industries such as metal, tyre, motor, mining, food and beverage, chemicals and plastics.

Entry Requirements

- Competency in Communication (English) at NQF Level 2.
- Competency in Mathematical Literacy at NQF Level 2.
- Competency in achieving production specifications, understanding production technology practices, and applying quality standards at NQF level 2 (acquired via the NC: Production Technology level 2).

Workplace Requirements

- Access to appropriate workplace environments.
- Active support by a mentor or supervisor.

Manufacturing & Production

NC: Production Technology

MERSETA Certification

SAQA ID: 58785

NQF Level: 3

Credits: 120

Course Delivery & Assessment

We use in-classroom and in-workplace practical training, observation and on-the-job coaching and mentoring to embed skills.

You will need to:

- Attend all lectures and sessions and complete practical workplace experiential learning.
- Demonstrate theoretical and practical understanding of programme content.
- Participate in and contribute in group activities.
- Compile and submit a Portfolio of Evidence (PoE).

To receive the NC: Production Technology level 3, you will need to compile, submit and be found competent by constituent Assessors, Moderators and Verifiers on a Portfolio of Evidence (PoE).

Learning Outcomes

By the end of the qualification, you will be able to

- Perform production maintenance activities and report irregularities within organisational structures.
- Apply the fundamental concepts, theories and techniques of production systems.
- Apply the fundamental concepts relating to production planning, scheduling and control.
- Apply quality control and quality assurance practices for efficient and effective production processes.
- Communicate effectively as a member of a team.



Course Content

NC: Production Technology
Accreditation Body: MERSETA

SAQA ID: 58785 | **Learning Programme ID: NA**
NQF Level: 3 | **Credits: 120**

Core Modules

- Apply quality procedures and safety, health and environmental protection procedures
- Describe and explain the principles of logistics support in a specific context
- Explain the planning and scheduling of tasks in a production environment
- Identify and explain the core and support functions of an organisation
- Perform first line maintenance
- Work as a project team member

Fundamental Modules

- Accommodate audience and context needs in oral and signed communication
- Interpret and use information from a variety of written texts
- Use language and communication in occupational learning programmes
- Demonstrate and understand the use of different number bases and measurement units and an awareness of errors in the context of relevant calculations
- Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts
- Investigate life and work related problems using data and probabilities
- Use mathematics to investigate and monitor the financial aspects of personal, business and national issues

Elective Modules: Two Pathways

Pathway 1

- Demonstrate knowledge and understanding of HIV/AIDS and its effects on a business sub-sector, own organisation and a specific workplace
- Operate within a logistics environment
- Demonstrate understanding of warehouse manufacturing and inventory assembly

Pathway 2

- Operate within a logistics environment
- Perform the role of a safety, health and environmental protection representative
- Demonstrate understanding of warehouse manufacturing and inventory assembly



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