



THE  
LEARNING  
DEVELOPMENT  
GROUP

## Introduction

The NC: Production Technology is an entry-level occupational programme for individuals working in predominantly manufacturing, engineering and technology environments.

It provides knowledge and skills to perform a range of activities in the sector. It covers topics such as production technology processes, practices and systems, communicating production and manufacturing operational information, using organisational structures, functions and processes to meet production specifications and health, safety and quality assurance.

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

The qualification offers a career path in Production Technology and entry to the National Certificate: Production Technology Level 3.

## Target Audience

The qualification is aimed at individuals working in or wanting to work in manufacturing and production technology and allied industries.

It offers career opportunities and competencies in production processes, systems and maintenance, quality control and occupational health and safety. It is an ideal programme for entry into industries such as metal, tyre, motor, mining, food and beverage, chemicals and plastics.

## Entry Requirements

- Competency in Communication (English) at NQF Level 1.
- Competency in Mathematical Literacy at NQF Level 1.

## Workplace Requirements

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

## Manufacturing & Production

# NC: Production Technology

MERSETA Certification

SAQA ID: 58781

NQF Level: 2

Credits: 125

## 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 2, 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:

- Communicate production and manufacturing related operational information to a variety of end users.
- Optimise organisational structures, functions and processes to achieve production specifications.
- Maintain a safe and healthy work environment by contributing to production activities individually and in working groups.
- Demonstrate an understanding of production technology practices, terminology and systems in manufacturing, engineering and technology applications.
- Apply quality standards and procedures in production activities.



## Course Content

NC: Production Technology

Accreditation Body: MERSETA

SAQA ID: 58781 | Learning Programme ID: NA  
NQF Level: 2 | Credits: 125

### Core Modules

- Frame and implement an individual action plan to improve productivity within an organisational unit
- Identify and describe inputs, outputs, stages and quality indicators of a manufacturing, assembly or engineering process
- Identify potential hazards and critical safety issues in the workplace
- Apply health and safety to a work area
- Keep a work area safe and productive
- Count stock for a stock-take
- Monitor the quality of input materials and manufactured plastic products
- Orientate self in the workplace
- Perform routine maintenance
- Supply raw and processed material to a production line
- Understand and deal with HIV/AIDS
- Explain and use organisational procedures

### Fundamental Modules

- Access and use information from texts
- Use language and communication in occupational learning programmes
- Write and present for a defined context
- Maintain and adapt oral and signed communication
- Apply basic knowledge of statistics and probability to influence the use of data and procedures to investigate life related problems
- Demonstrate and understand rational and irrational numbers and number systems
- Measure, estimate and calculate physical quantities
- Explore, describe and represent geometrical relationships in 2-dimensions in different life or workplace contexts
- Use mathematics to investigate and monitor the financial aspects of personal and community life
- Work with a range of patterns and functions and solve problems

### Elective Modules: Two Pathways

#### Pathway 1

- Complete post-production and finishing operations
- Conduct minor routine and breakdown maintenance on equipment and machines
- Deal with safety, health and environmental emergencies in the workplace

#### Pathway 2

- Conduct minor routine and breakdown maintenance on equipment and machines
- Deal with safety, health and environmental emergencies in the workplace
- Select, use and care for engineering hand tools
- Use and care for tools and equipment



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