



THE
LEARNING
DEVELOPMENT
GROUP

Introduction

The FETC: Production Technology, NQF level 4, is the third in a series of three occupational qualifications for individuals working in manufacturing, engineering and production technology environments.

Delegates will build on the knowledge acquired in the NC: Production Technology Level 3. They will gain more advanced knowledge and practical skills in production technology, improving production productivity, budgeting and optimising resources in an operational unit, solving operation problems and quality assurance and control.

The structure of the qualification includes compulsory Core and Fundamental Modules and two elective specialisation pathways from which to select.

It offers career progression in Production Technology and allied industries and entry to Higher Education and other qualifications at an NQF Level 5.

Target Audience

This qualification is ideal for individuals who have been working in production, manufacturing and assembly work roles for the minimum of a year, and those who have completed the NC: Production Technology level 3.

It is suitable for those working in industries such as metal, tyre, motor, mining, food and beverage, chemicals and plastics.

Entry Requirements

- Competency in Communication (English) at NQF Level 3.
- Competency in Mathematical Literacy at NQF Level 3.
- Competency in a second South African language at NQF Level 4.
- Competency in applying the concepts, theories and techniques of production systems, production planning, scheduling and control and quality control and quality assurance for effective production at NQF level 3 (acquired via the NC: Production Technology level 3).

Workplace Requirements

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

Manufacturing & Production

FETC: Production Technology

MERSETA Certification

SAQA ID: 58779

NQF Level: 4

Credits: 143

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 FETC: Production Technology level 4, 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:

- Measure, control and improve factors influencing productivity.
- Contribute to budgeting processes in an operational unit to optimise resources.
- Measure, control and improve factors influencing production.
- Solve operational problems in a production process.
- Promote, implement and maintain procedures that support quality assurance and control.





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Course Content

FETC: Production Technology
Accreditation Body: MERSETA

SAQA ID: 58779 | **Learning Programme ID: N/A**
NQF Level: 4 | **Credits : 143**

Core Modules

- Monitor machining processes, interpret statistical process control charts, and rectify production problems
- Co-ordinate, formulate and implement an action plan for improving productivity within a organisational unit
- Demonstrate basic understanding of the primary labour legislation that impacts on a business unit
- Monitor and control quality practices in manufacturing and production
- Estimate and prepare cost budgets for a project or sub project and monitor and control actual cost against budget
- Schedule and monitor production
- Solve operational problems in a manufacturing and assembly context

Fundamental Modules

- Accommodate audience and context in spoken and written communication
- Interpret and use information from texts and write, read, analyse and respond to a variety of texts and communication contexts
- Use language and communication in occupational learning
- Engage in sustained spoken and signed communication and evaluate spoken and signed texts
- Use statistics and probability to critically interrogate and effectively communicate findings on life related problems
- Represent, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts
- Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues

Elective Modules: Two Pathways

Pathway 1

- Induct a member into a team
- Maintain records for a team
- Conduct a structured meeting
- Build teams to meet set goals and objectives
- Apply efficient time management to the work of a department, division or section

Pathway 2

- Determine manufacture and assembly material requirements
- Control production and resource scheduling and planning in a manufacturing environment

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