

# ENGINEERING

## NATIONAL CERTIFICATE: PRODUCTION TECHNOLOGY

### COURSE INFORMATION

**SAQA ID:** 58785

**NQF Level:** 3

**Learnership Duration:** 12 months

**Credits:** 121

**Contact Sessions:** Minimum Contact Session, including remediation (if required), and Portfolio Building for this Qualification is **27 Days**

**Accrediting SETA:** Manufacturing, Engineering and Related Services Sector Education & Training Authority

### PURPOSE

This qualification provides learners with the range of learning and skills required to be able to perform a series of activities to support manufacturing, engineering and technology processes. Learners will acquire a range of skills in the identification of production parameters in manufacturing, engineering and technology industries and basic strategies to achieve them.

### ENTRY CRITERIA

- Communication NQF Level 2
- Mathematical Literacy NQF Level 2
- Contribute to achieving production specifications through optimising organisational structures, functions and processes NQF Level 2
- Demonstrate an understanding of production technology practices, terminology and systems as applied in manufacturing, engineering and technology NQF Level 2
- Contribute to efficient and effective production by applying quality standards and procedures NQF Level 2.

### QUALIFICATION RULES

The qualifying learner will achieve this qualification by complying with the following rules of combination for the accumulation of credits totalling a minimum of 120:

- Fundamental unit standards totalling 36 credits are compulsory.
- Core unit standards totalling 51 credits are compulsory.
- Learners must complete unit standards to the value specialisation, of at least 33 credits from the specialisation, sector or general elective unit standards.

### EQUIPMENT NEEDED

- N/A

### MARKET INFORMATION

**Target Market:** Production Assistant, Production Controller, Production Supervisor, Plant Controller, Administration Clerk, Operators, Operations Co-ordinator, Stock Controllers, Receiving Staff

**Target Industries:** Manufacturing • Engineering

### COURSE INFORMATION

- **Mentor Requirements:** Mentor must have at least 5 years' experience in a Production Environment.
- **Workplace Approval:** MERSETA Approval Required
- **Workplace Requirements:** Learners must be exposed to all Outcomes related to this qualification.

### SKILLS OUTCOMES

- 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.

### GENERAL INFORMATION



**Credit Accumulation Transfer (CAT):** CAT exemption is only applicable to approved learners. Approved learners will have reduced contact days. Learners who do not meet the CAT requirements will be required to complete all the Clusters.



**FISA Requirements:** Final Integrated Summative Assessment is not requirement for the successful completion of this learnership.



**Recognition of Prior Learning (RPL):** RPL is not available for this qualification



**Training Methodology:** This learnership is not available on UHub

## UNIT STANDARDS

### Cluster 1 Safety in a Production Environment

Outcome	SAQA ID	Name of Unit Standard	Credits
Core	13223	Apply safety, health and environmental protection procedures	6
Core	244504	Describe and explain the principles of logistics support in a specific context	6
Core	116218	Explain the planning and scheduling of tasks in a production environment	3
Core	242814	Identify and explain the core and support functions of an organisation	6
Core	120379	Work as a project team member	8

■ Recommended training days for Cluster 1 is 7 days

### Cluster 2 First Line and quality maintenance

Outcome	SAQA ID	Name of Unit Standard	Credits
Core	13234	Apply quality procedures	8
Core	9913	Perform first line maintenance	14

■ Recommended training days for Cluster 2 is 5 days

### Cluster 3 (compulsory) – Credit Accumulation Transfer is applicable to the unit standards below

Outcome	SAQA ID	Name of Unit Standard	Credits
Fundamental	119472	Accommodate audience and context needs in oral/signed communication	5
Fundamental	119466	Interpret a variety of literary texts	5
Fundamental	119457	Interpret and use information from texts	5
Fundamental	119467	Use language and communication in occupational learning programmes	5

■ Recommended training days for Cluster 3 is 2 days

### Cluster 4 (compulsory) – Credit Accumulation Transfer is applicable to the unit standards below

Fundamental	7456	Use mathematics to investigate and monitor the financial aspects of personal, business and national issues	5
Fundamental	9012	Investigate life and work-related problems using data and probabilities	5
Fundamental	9010	Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations	2
Fundamental	9013	Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	4

■ Recommended training days for Cluster 4 is 4 days

### Cluster 5 (electives)

Outcome	SAQA ID	Name of Unit Standard	Credits
Elective	12455	Perform the role of a safety, health and environmental protection representative	4
Elective	116720	Show understanding of diversity in the workplace	3
Elective	12483	Perform basic first aid	4

■ Recommended training days for Cluster 5 is 4 days

### Cluster 6 (electives)

Elective	9530	Manage work time effectively	3
Elective	116280	Demonstrate understanding of warehouse manufacturing and inventory assembly	20

■ Recommended training days for Cluster 6 is 5 days