



# FURTHER EDUCATION AND TRAINING CERTIFICATE: PRODUCTION TECHNOLOGY

## NQF



4

## SAQA



58779

## TRAINING DAYS



27

## DURATION



12 months

## CREDITS



143

## SETA



MerSETA

## AVAILABLE DELIVERY METHODOLOGY

### Online



This course is not available online.

### Instructor Led



100% Trainer led methodology in order for learners to achieve applied competence

### Blended



Variety of learning methodologies used for learners to achieve applied competence

## PURPOSE

The combination of learning outcomes that comprise this qualification will provide the qualifying learner with vocational knowledge and skills appropriate to the context of production technology. 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.

### Rules regarding Fundamental, Core and Electives:

- Fundamental unit standards totaling 56 credits are compulsory.
- Core unit standards totaling 67 credits are compulsory.
- The elective component of the qualification consists of a number of unit standards, divided into specialisations totalling a minimum of 20 credits.

## ENTRY CRITERIA

- Communication NQF Level 3.
- Mathematical Literacy NQF Level 3.
- Apply the fundamental concepts, theories and techniques of production systems, NQF Level 3.
- Apply the fundamental concepts relating to production planning, scheduling and control, NQF Level 3.
- Apply quality control and quality assurance practices for efficient and effective production processes, NQF Level 3.

## SKILLS OUTCOMES

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

## MARKET INFORMATION

**Target Market:** Production Assistant • Production Controller • Production Supervisor • Plant Controller • Administration Clerk • Operations Co-ordinator • Stock Controllers • Receiving Stores

**Target Industries:** Manufacturing & Engineering

## RESOURCE REQUIREMENTS

Access to training a facility with minimum of 60 % capacity of the following machining processes:

- End forming
- Degreasing
- Cleaning
- Boring and grooving
- Broaching
- Heating and curing
- Deburring
- Cutting
- Packaging and wrapping
- Lathing
- Conveying and feeding

For more information on how your organisation can benefit, contact Training Force:



# ENGINEERING

## 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 with CAT requirements will need to complete all Clusters in full.

FISA Requirements: Final Integrated Summative Assessment is a requirement for the successful completion of this learnership.

Recognition of Prior Learning: RPL is not available for this qualification.

### Cluster 1 - Control quality in a production environment

Outcome	SAQA ID	Name of Unit Standard	Credits
Core	114884	Co-ordinate the improvement of productivity within a functional unit.	8
Core	13952	Demonstrate basic understanding of the Primary labour legislation that impacts on a business unit.	8
Elective	13235	Maintain the quality assurance system.	5
Core	14586	Monitor and control quality control practices in a manufacturing/engineering environment.	8

Recommended training days for Cluster 1 is 5 days.

### Cluster 2 - Productivity Standards in a production environment

Outcome	SAQA ID	Name of Unit Standard	Credits
Core	114877	Formulate and implement an action plan to improve productivity within an organisational unit.	8
Core	120375	Participate in the estimation and preparation of cost budget for a project or sub project and monitor and control actual cost against budget.	6
Core	116287	Schedule and monitor production.	12
Core	116284	Solve operational problems in a manufacturing/assembly context.	10
Core	243025	Monitor machining process, interpret statistical process control charts, and rectify production problems.	7

Recommended training days for Cluster 2 is 8 days.



# ENGINEERING

**Cluster 3 - Communication Skills - 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	119457	Interpret and use information from texts.	5
Fundamental	119467	Use language and communication in occupational learning programmes.	5
Fundamental	119465	Write/present/sign texts for a range of communicative contexts.	5
Fundamental	119459	Write/present/sign for a wide range of contexts.	5
Fundamental	119471	Use language and communication in occupational learning programmes.	5
Fundamental	119462	Engage in sustained oral/signed communication and evaluate spoken/signed texts.	5
Fundamental	119469	Read/view, analyse and respond to a variety of texts.	5

Recommended training days for Cluster 3 is 8 days.

**Cluster 4 - Numeracy Skills - Credit Accumulation Transfer is applicable to the unit standards below:**

Outcome	SAQA ID	Name of Unit Standard	Credits
Fundamental	9016	Represent analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts.	4
Fundamental	7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues.	6
Fundamental	9015	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life-related problems.	6

Recommended training days for Cluster 4 is 3 days.

**Cluster 5 - Working in a Production environment**

Outcome	SAQA ID	Name of Unit Standard	Credits
Elective	116218	Explain the planning and scheduling of tasks in a production environment.	3
Elective	116292	Demonstrate an understanding of the principles of manufacturing and assembly logistics planning.	12

Recommended training days for Cluster 5 is 3 days.