ENGINEERING

TRAINING FORCE
Linking Training to Industry

NATIONAL CERTIFICATE: PRODUCTION TECHNOLOGY

COURSE INFORMATION

SAQA ID: 58781
NQF Level: 2
Learnership Duration: 12 months
Credits: 128
Contact Sessions: Minimum Contact Session, including remediation (if required), and Portfolio Building for this Qualification is **26 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 at NQF Level 1.
- Mathematical Literacy at NQF Level 1.

QUALIFICATION RULES

The qualifying learner will achieve this qualification by complying with the following rules of combination for the accumulation of credits totalling 125:

- Fundamental unit standards totalling 36 credits are compulsory.
- Core unit standards totalling 69 credits are compulsory.
- Elective unit standards totalling a minimum of 20 credits from the specialisation, sector or general elective unit standards.

EQUIPMENT NEEDED

- Hand and measuring tools • First aid equipment.

MARKET INFORMATION

Target Market: Production Assistant, Production Controller, Production Supervisior, 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 a Production Environment.
- **Workplace Approval:** MERSETA Approval Required.
- **Workplace Requirements:** Learners must be exposed to all Outcomes related to this qualification.

SKILLS OUTCOMES

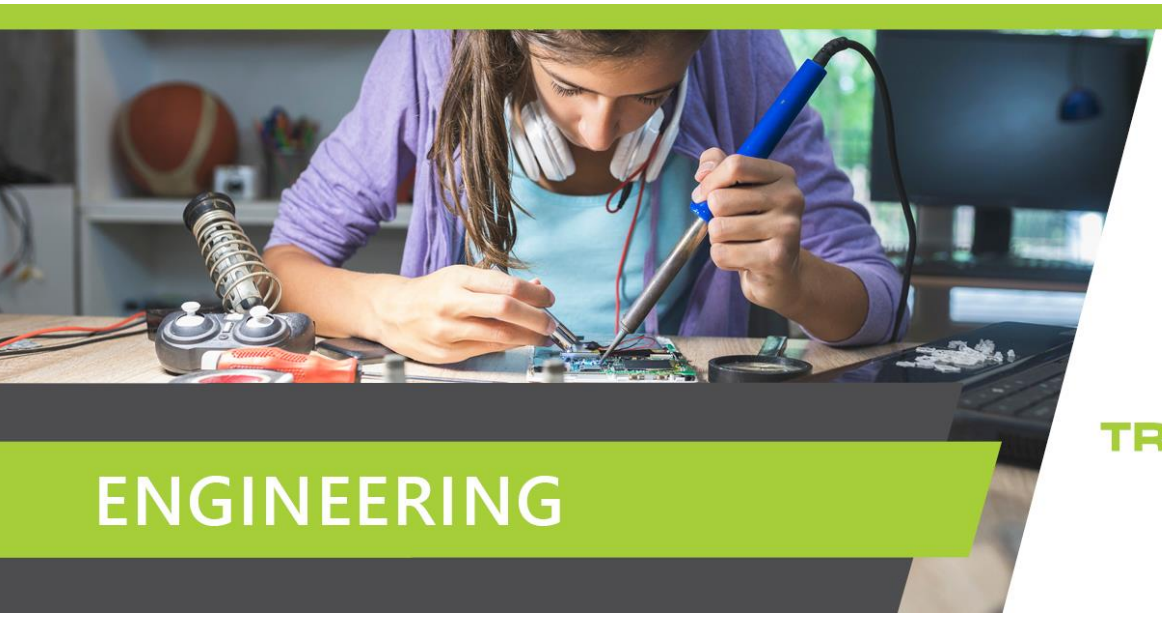
- Communicate production and manufacturing related operational information to a variety of end users.
- Optimise organisational structures, functions and processes in order to contribute to achieving production specifications.
- Maintain a safe and healthy work environment through contributions made to production activities individually and in working groups.
- Demonstrate an understanding of production technology practices, terminology and systems as applied in manufacturing, engineering and technology
- Apply quality standards and procedures in production activities.

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 Part 1 and Part 2 of every Cluster.

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



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UNIT STANDARDS

Cluster 1 (Part 1) - Orientation to the Production Environment

Outcome	SAQA ID	Name of Unit Standard	Credits
Core	14445	Frame and implement an individual action plan to improve productivity within an organisational unit	3
Core	12036	Orientate self in the workplace	6

- **Recommended training days for Cluster 1** part 1 **is 2** days

Cluster 1 (Part 2) - Orientation to the Production Environment – Credit Accumulation Transfer is applicable to the unit standards below

Outcome	SAQA ID	Name of Unit Standard	Credits
Fundamental	119456	Write/present for a defined context	5
Fundamental	119460	Use language and communication in occupational learning programmes	5

- **Recommended training days for Cluster 1** part 2 **is** 2 days

Cluster 2 (Part 1) - Apply quality standards and procedures in production activities

Outcome	SAQA ID	Name of Unit Standard	Credits
Core	13162	Identify and describe inputs, outputs, stages and quality indicators of the manufacturing, assembly or engineering process	10
Core	119139	Monitor the quality of the input materials and the manufactured plastic product	12
Core	13221	Perform routine maintenance	8
Elective	265001	Maintain stock levels of equipment and consumables	4

- **Recommended training days for Cluster 2** part 1 **is 7** days

Cluster 2 (Part 2) - Apply quality standards and procedures in production activities – Credit Accumulation Transfer is applicable to the unit standards below

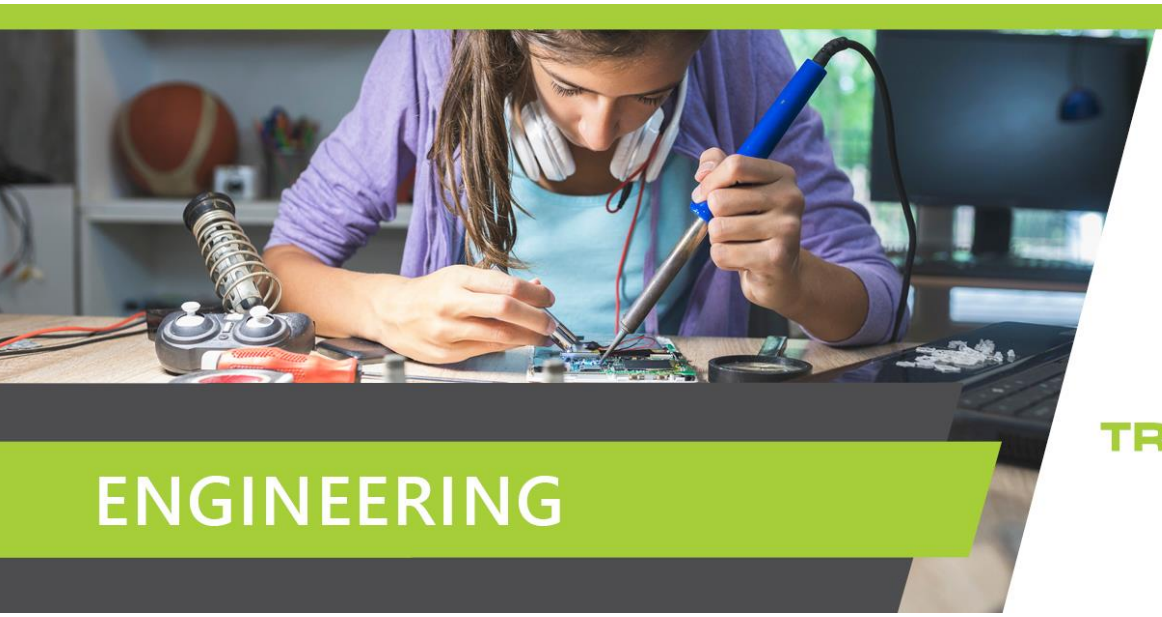
Outcome	SAQA ID	Name of Unit Standard	Credits
Fundamental	119454	Maintain and adapt oral/signed communication	5
Fundamental	119463	Access and use information from texts	5

- **Recommended training days for Cluster** 2 part 2 **is** 2 days

Cluster 3 (Part 1) - Production process

Outcome	SAQA ID	Name of Unit Standard	Credits
Core	12667	Supply raw and processed material to production line	3
Core	114891	Count stock for a stock-take	5
Core	13220	Keep the work area safe and productive	8
Elective	244338	Operate a production process	15

- **Recommended training days for Cluster 3** part 1 **is** 6 days



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Cluster 3 (Part 2) - Production process – Credit Accumulation Transfer is applicable to the unit standards below

Outcome	SAQA ID	Name of Unit Standard	Credits
Fundamental	12444	Measure, estimate and calculate physical quantities and explore, describe and represent geometrical relationships in 2-dimensions in different life or workplace contexts	3
Fundamental	9009	Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems	3

- **Recommended training days for Cluster 3** part 2 **is** 1 day

Cluster 4 (Part 1) - Compliance and Calculations in a production environment

Outcome	SAQA ID	Name of Unit Standard	Credits
Core	12456	Explain and use organisational procedures	6
Core	13167	Identify potential hazards and critical safety issues in the workplace	2

- **Recommended training days for Cluster 4** part 1 **is 2** days

Cluster 4 (Part 2) - Compliance and Calculations in a production environment – Credit Accumulation Transfer is applicable to the unit standards below

Outcome	SAQA ID	Name of Unit Standard	Credits
Fundamental	7480	Demonstrate understanding of rational and irrational numbers and number systems	3
Fundamental	9007	Work with a range of patterns and functions and solve problems	5

- **Recommended training days for Cluster 4** part 2 **is** 1 day

Cluster 5 (Part 1) - Housekeeping and Safety

Outcome	SAQA ID	Name of Unit Standard	Credits
Core	9964	Apply health and safety to a work area	3
Core	12463	Understand and deal with HIV/AIDS	3
Elective	12483	Perform basic first aid	4

- **Recommended training days for Cluster 5** part 1 **is** 2 days

Cluster 5 (Part 2) - Housekeeping and Safety – Credit Accumulation Transfer is applicable to the unit standards below

Outcome	SAQA ID	Name of Unit Standard	Credits
Fundamental	7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	2

- **Recommended training days for Cluster 5** part 2 **is 1** day