



CPT

SKILLS DEVELOPMENT SOLUTIONS



Learnerships



Skills
Programmes

**FETC: Metal & Engineering Manufacturing
Processes NQF 4
SAQA ID.: 79687**

General Information

Qualification Title	FETC: Metal & Engineering Manufacturing Processes
SAQA Qualification ID	79687
NQF Level	NQF 4
Credits	139 (Qualification requires 127)
Primary ETQA	MerSETA
Registration Status	Registered

Purpose of the Qualification

This Qualification is for any individual who is, or wishes to be, involved in a metal and engineering manufacturing processes environment. The purpose of the qualification is to provide learners, with the standards and the range of learning required to achieve competence in the operation and monitoring of machines in the metal and engineering manufacturing processes industry. This qualification recognises the skills, knowledge and values acquired by learners involved in operating and monitoring manufacturing machinery and assembling components and working in the metal and engineering industry using such processes.

The other related and important skills that are recognised in this qualification are interpreting and producing engineering drawings, performing first line maintenance and handling and caring for materials.

This qualification recognises the skills, knowledge and values acquired by learners involved in setting-up production or manufacturing machinery and to be able to perform a range of activities and thereby meet the challenges within a specific metal and engineering manufacturing processes environment at this level. While the qualification focuses on the manufacturing context, the competencies in this qualification can also be used by those in the production environment. An individual acquiring this Qualification will be able to contribute towards the efficient operation of a number of processes within the manufacturing and production environments as described in the Core component of the qualification.

Rationale for the Qualification

This is the third and final Qualification in a series of three metal and engineering manufacturing processes qualifications that range from NQF Levels 2 to 4. These qualifications constitute a learning pathway that takes the learners from basic or simple competencies in metal and engineering manufacturing processes at NQF Level 2 to structuring and managing metal and engineering manufacturing processes competencies at NQF Level 4. This Qualification provides critical competencies for learners who want to follow a career in the metal and engineering manufacturing processes industry. It reflects the skills, knowledge and understanding required to participate effectively in the metal and engineering manufacturing processes industry, whether in micro, small, medium or large operations.

The metal and engineering manufacturing processes industry is characterised by diverse manufacturing processes operating in a competitive and challenging environment. The manufactured products have to respond to a wide variety of exacting customer and consumer requirements. The highly developed metal and engineering manufacturing processes sector is well-established. It will be in the interest of the country and the

sector to ensure that those who operate in the metal and engineering manufacturing processes environment are trained according to this Qualification to improve productivity and efficiency.

The Further Education and Training Certificate: Metal and Engineering Manufacturing Processes supports the objectives of the NQF in that it gives the learner access to a registered Qualification. It will ensure that the quality of education and training in the sub-field is enhanced and of a world-class standard. The Qualification will allow learners not only to develop their knowledge and skills in the metal and engineering manufacturing processes sector but will also enable them to benchmark their competencies against international standards.

Modules

FETC: Metal & Engineering Manufacturing Processes NQF 4			
SAQA ID.: 79687			
Module No.:	Name of Module	Unit Standards	Duration of Module
PoE 01	Planning and Preparing a POE for Assessment	None	1 Day
Module 1	Communication Skills 1	119457, 119465, 119469, 119459	5 Days
Module 2	Communication Skills 2	119472, 119467, 119462, 119471	5 Days
Module 3	Measurement and Statistics	9015, 9016, 7468	6 Days
Interim Assessments of POE (Learners not Required)			
Module 4	Manufacturing Operations: Advanced	335863, 335865, 335874	7 Days
Module 5	Marking off of non-routine shapes	335861	4 Days
Module 6	Quality in the Workplace	14586	5 Days
Interim Assessments of POE (Learners not Required)			
Module 7	SHE in the Workplace	120366, 243301	5 Days
Module 8	Time Management & Structured Meetings	242811, 242816	4 Days
Total Number of Classroom Days:			42 Days
Final Assessments & Practical (Learners Required)			
<i>Please note: We can only accommodate 6 learners per day for practical's</i>			

Core Unit Standards

Unit Standard No.:	Name of Unit Standard	Credits
120366	Demonstrate understanding of the implementation of occupational health, safety and environmental legislation in the workplace	9
335863	Identify and solve problems pertaining to production machines	15
243301	Manage safety and emergency incidences	6
14586	Monitor and control quality control practices in a manufacturing/engineering environment	8
335861	Perform marking-off for non-routine shapes	8
335874	Prepare to set-up production machines	11
335865	Set-up production machines	16
Note: <u>ALL</u> CORE Unit Standards are covered - 73 credits		

Fundamental Unit Standards

Unit Standard No.:	Name of Unit Standard	Credits
119472	Accommodate audience and context needs in oral/signed communication	5
119457	Interpret and use information from texts	5
119467	Use language and communication in occupational learning programmes	5
119465	Write/present/sign texts for a range of communicative contexts	5
9015	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	6
119462	Engage in sustained oral/signed communication and evaluate spoken/signed texts	5
119469	Read/view, analyse and respond to a variety of texts	5
9016	Represent analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	4
119471	Use language and communication in occupational learning programmes	5
7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	6
119459	Write/present/sign for a wide range of contexts	5
Note: <u>ALL</u> FUNDAMENTAL Unit Standards are covered - 56 credits		

Elective Unit Standards

Unit Standard No.:	Name of Unit Standard	Credits
242811	Prioritise time and work for self and team	5
242816	Conduct a structured meeting	5
Note: ELECTIVE unit standards covered equal - 10 credits		

During the Learnership

During the Learnership the learner will be required to attend class for each module. The lecturer is there to assist the learners in their studies to successfully complete the Learnership. The learner will receive the following during the Learnership:

- At the beginning of the Learnership the learner will be supplied with their Portfolio of Evidence and will spend time on the first day of class putting together their Portfolio of evidence so the learner knows how their portfolio works.
- For each module the learner will receive a workbook with the relevant information relating to the Unit Standards for that module.
- The learner will go through continuous assessments during the learnership to make sure all the relevant exercises are completed satisfactorily.
- At the end of the theory part of the learnership a Senior Assessor will conduct the final assessment as well as the practical for the Learnership.

Once the final assessments are completed the Final Assessor will bring all the Portfolios back to the College for Internal Moderation. Once the Internal Moderator is satisfied with the Portfolios CPT will arrange with the relevant SETA to conduct the External Moderation.

The client will be sent a copy of the External Moderation Report showing the final outcome of the Portfolios. CPT will then apply for the Certificates with the relevant SETA on behalf of the client.

Qualification Rules

In order for a learner to successfully enter this learnership, the following must be adhered to:

1. The learner must have a qualification at least one level lower than the respective Learnership they are entering into. For example, if the learner wishes to enter a NQF 3 Learnership then he / she must have an equivalent to a Grade 10 School report or an NQF 2 Qualification in a SIMILAR field as the respective Learnership.
2. The learner must be a South African citizen or a valid work permit with a passport from their country of origin.
3. The Learner will be completing a SETA Learner agreement before commencing on the Learnership. These contracts will be completed with the learner on the first day of class. The learner needs to bring two (2) originally certified copies of their Identification Document as well as two (2) originally certified copies of their Highest Qualification.

Contact Details

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