



CPT

SKILLS DEVELOPMENT SOLUTIONS



Learnerships



Skills
Programmes

National Certificate: Metal & Engineering Manufacturing Processes NQF 2

SAQA ID.: 79686

General Information

Qualification Title	National Certificate: Metal & Engineering Manufacturing Processes
SAQA Qualification ID	79686
NQF Level	NQF 2
Minimum Credits	120
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 reading and interpreting engineering drawings and marking off regular engineering shapes and the use of engineering hand and power tools. This capability requires an understanding of basic quality requirements and monitoring material flow.

The Qualification contains all the skills, knowledge, values and attitudes required by a learner who will be working at an entry level in a specific metal and engineering manufacturing processing environment. An individual acquiring this Qualification will be able to contribute to the efficient operation of a number of processes within this sector.

Rationale for the Qualification

This is the first Qualification in a series of three metal and engineering manufacturing processes qualifications that range from NQF Level 2 to 4. These qualifications constitute a learning pathway that takes the learners from basic/simple competencies in metal and engineering manufacturing processes at NQF Level 2 to fairly substantial metal and engineering manufacturing processes competencies at NQF Level 4. This first qualification provides access for learners who want to follow a career in the metal and engineering industry. This qualification reflects the skills, knowledge and understanding required to participate effectively in the metal and engineering 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 sector has high levels of productivity and efficiency. This qualification can assist the sector to obtain those goals.

This Qualification forms the basis for further learning in the field of metal and engineering manufacturing processes at NQF Level 3 and 4. The Qualification and its related Unit Standards were developed to standardise the accreditation of learning programmes, resulting in improved quality management in terms of programme delivery.

The National Certificate: Metal and Engineering Manufacturing Processes, NQF Level 2 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

National Certificate: Metal & Engineering Manufacturing Processes NQF 2			
SAQA ID.: 79686			
Module No.:	Name of Module	Unit Standards	Duration of Module
PoE 01	Plan and Prepare a POE for Assessment		1 Day
Module 1	Communication Skills	119463, 119454, 119460, 119456	5 Days
Module 2	Numeric Skills	7480, 9008, 9007	5 Days
Module 3	Life Skills	9009, 7469	6 Days
Interim Assessments of POE (Learners not Required)			
Module 4	Deal with SHE Emergencies in the Workplace	259604, 259597	5 Days
Module 5	Mark off, Read & Interpret Engineering Drawings	335860, 335897	10 Days
Module 6	Perform Basic Welding / Joining of Metals	119753	3 Days
Interim Assessments of POE (Learners not Required)			
Module 7	Teamwork & Business Roles	9322, 12466	4 Days
Module 8	Manufacturing Operations: Metal & Engineering Introduction	265003, 265000, 9786, 119744, 12219, 335896	8 Days
Total Number of Classroom Days:			46 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
265003	Assemble components	12
265000	Complete post-production and finishing operations	6
259597	Explain emergency preparedness and response procedures	3
335897	Mark off regular engineering shapes	6
9876	Operate and monitor machinery	12
335860	Read and interpret engineering drawings	8
119744	Select, use and care for engineering hand tools	8
12219	Select, use and care for engineering power tools	6
259604	Verify compliance to safety, health and environmental requirements in the workplace	4
9322	Work in a team	3
Note: ALL CORE Unit Standards are covered - 68 credits		

Fundamental Unit Standards

Unit Standard No.:	Name of Unit Standard	Credits
119463	Access and use information from texts	5
9009	Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems	3
7480	Demonstrate understanding of rational and irrational numbers and number systems	3
9008	Identify, describe, compare, classify, explore shape and motion in 2-and 3-dimensional shapes in different contexts	3
119454	Maintain and adapt oral/signed communication	5
119460	Use language and communication in occupational learning programmes	5
7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	2
9007	Work with a range of patterns and functions and solve problems	5
119456	Write/present for a defined context	5
Note: ALL FUNDAMENTAL Unit Standards are covered - 36 credits		

Elective Unit Standards

Unit Standard No.:	Name of Unit Standard	Credits
12466	Explain the individual's role within business	4
119753	Perform basic welding/joining of metals	8
335896	Prepare surfaces	6
Note: ELECTIVE unit standards covered equal - 25 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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