

National Certificate: Metals Production NQF Level 4

Introduction: This is the third qualification in a series designed for learners who want to follow a career in a ferrous or non-ferrous metals production working environment. The series outlines a learning progression from NQF level 2 to NQF level 4 for learners learning and working in for example, the iron and steel, tin, aluminium, graphite, copper, and zinc production industries. It reflects the skills, knowledge and understanding required to participate effectively in processes within the above-mentioned industries, whether in small, medium or large operations. For those who have been in the workplace for a long time, this qualification represents part of the RPL process to acknowledge workplace skills acquired without the benefit of formal education or training.

SAQA Qualification ID number – 65193

Target group: All relevant production employees, who completed Metals production NQF, level 3.	Certification: The Qualification consists of a Fundamental, a Core and an Elective Component. To be awarded the Qualifying learners are required to obtain a minimum of 140 credits as detailed below.	Duration: 12 Months
Entry Level Requirements: ▪ National Certificate: Metals Production NQF Level 3	Fundamental: 56 credits (compulsory). Core: 74 credits (compulsory). Elective: A minimum of 10 credits. If competent a competence certificate will be issued by merSETA	

QUALIFICATION OUTLINE

	Unit standard ID	UNIT STANDARD TITLE	Credits	Duration:
Core	<u>259694</u>	Control a production process , the modules covered are: <ul style="list-style-type: none"> ▪ Controlling the slipping of electrodes to maintain electrode lengths ▪ Controlling the electrical operation of the furnace to smelt the burden efficiently ▪ Preparing the furnace for maintenance ▪ Inspecting furnace equipment and monitoring of auxiliaries ▪ Controlling the furnace cooling water system ▪ Operating a gas cleaning system 	25	12 Months
Core	<u>120366</u>	Demonstrate understanding of the implementation of occupational health, safety and environmental legislation in the work place	9	
Core	<u>243301</u>	Manage safety and emergency incidences	6	
Core	<u>14586</u>	Monitor and control quality control practices in a manufacturing/engineering environment	8	
Core	<u>259685</u>	Plan and set-up a metals production process	13	
Fundamental	<u>119472</u>	Accommodate audience and context needs in oral/signed communication	5	
Fundamental	<u>119457</u>	Interpret and use information from texts	5	
Fundamental	<u>119467</u>	Use language and communication in occupational learning programmes	5	
Fundamental	<u>119465</u>	Write/present/sign texts for a range of communicative contexts	5	
Fundamental	<u>9015</u>	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	6	

Fundamental	<u>119462</u>	Engage in sustained oral/signed communication and evaluate spoken/signed texts	5	
Fundamental	<u>119469</u>	Read/view, analyse and respond to a variety of texts	5	
Fundamental	<u>9016</u>	Represent analyse and calculate shape and motion in 2- and 3-dimensional space in different contexts	4	
Fundamental	<u>119471</u>	Use language and communication in occupational learning programmes	5	
Fundamental	<u>7468</u>	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	6	
Fundamental	<u>119459</u>	Write/present/sign for a wide range of contexts	5	
Elective	<u>259695</u>	Control the operation of a pelletizing process	25	
			Duration	12 Months