National Certificate: Metals Production NQF Level 3

Introduction: This qualification is for any individual who is, or wishes to be, involved in a metals production environment and be able to perform a range of activities to operate and maintain process equipment for a particular process or operation within a specific metals production environment. Such processes or operations will include extracting, melting, refining, casting, rolling, shearing, forging and other metallurgical processes. In general, individuals at this level in the metal production environment will operate a furnace, casting machine or a converter among other process machines or equipment. These are large and complex machines which require training a learner over an extended period of time before s/he acquires sufficient competence to operate them. An individual acquiring this qualification will be able to contribute towards the smooth and efficient operation of the production processes in the metal production sector

SAQA Qualification ID number – 65191

Target group:	**Certification:**	**Duration:**
All relevant production employees, who completed Metals production NQF, level 2. **Entry Level Requirements:** ▪ National Certificate: Metals Production NQF Level 2	The Qualification consists of a Fundamental, a Core and an Elective Component. To be awarded the Qualification learners are required to obtain a minimum of 120 credits as detailed below. Fundamental: 36 credits (compulsory). Core: 61 credits (compulsory). Elective: A minimum of 23 credits. **If competent a competence certificate will be issued by merSETA**	10 Months

QUALIFICATION OUTLINE

	Unit standard ID	UNIT STANDARD TITLE	Credits	Duration:
Core	259624	Control workplace hazards and risks	4	10 Months
Core	244108	Apply safety, health and environment protection procedures in a process plant	6	
Core	259723	Perform first line maintenance on equipment in the metals production process	10	
Core	259724	Prepare for maintenance in a production plant	5	
Core	259697	Prepare, set up and operate process equipment in a production environment , the modules covered are: ▪ Handling molten material to ensure continuous flow of process ▪ Casting molten metal to effect solidification ▪ Preparing the ladle to receive tapped molten material ▪ Preparing casting equipment ▪ Charging/Stoking a the furnace in order to obtain the desired conditions ▪ Controlling the proportions of raw materials required for the smelting process ▪ Controlling the solid paste level to compensate for electrode consumption	36	
Fundamental	119472	Accommodate audience and context needs in oral/signed communication	5	
Fundamental	9010	Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations	2	

Fundamental	9013	Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	4	
Fundamental	119457	Interpret and use information from texts	5	
Fundamental	9012	Investigate life and work related problems using data and probabilities	5	
Fundamental	119467	Use language and communication in occupational learning programmes	5	
Fundamental	7456	Use mathematics to investigate and monitor the financial aspects of personal, business and national issues	5	
Fundamental	119465	Write/present/sign texts for a range of communicative contexts	5	
Elective	13234	Apply quality procedures	8	
Elective	116534	Carry out basic first aid treatment in the workplace	2	
Elective	253656	Communicate with clients	3	
Elective	8039	Operating cranes	10	
Elective	8038	Operating lift trucks	6	
Elective	116720	Show understanding of diversity in the workplace	3	
			Duration	10 Months