

Skills Programme Details

Skills Programme in Crushing

MQA ID: MQA/SP/0172/17

NQF Level: 2-3

Minimum Credits: 12

Purpose of Skills Programme

This skills programme is aimed at persons who work or intend to work within the Crushing section of a processing plant and who seek recognition for essential skills in this area.

Rationale

The majority of the candidates for this skills programme are likely to be working in the mining and minerals sector. The skills program will give them the opportunity to balance their practical skills with the essential knowledge needed to earn a formal skills program in Crushing operations.

There is also a critical need in the industry to identify people who are able to conduct the essential operations associated with efficient and safe mineral extraction in at least one of the operations.

Articulation

This skills programme may be the initial platform for obtaining credits towards the National Certificate in Mineral Processing (NQF level 2) and other production related sub fields.

Learning assumed to be in place

It is assumed that candidates embarking on learning towards this skills program are educated to NQF Level 1.

Access to the skills programme

This skills programme is open to anyone with access to learning opportunities and work experience in the areas reflected in the exit level outcomes and unit standards. It is advisable that candidates should already have addressed the areas reflected under "learning assumptions" before embarking towards this skills programme, although the exact starting point depends on the available resources for learning.

Learning programme

Training (notional) Period based on total credit value core only

12 X 10 = 100 Hours

= 120/6 hours = 20 Days

Composition of the Skills Programme

1. Generic Core Unit standards

NLRD Number	Standard title	NQF Level	Credits
	Materials transport and handling		
252324	Transfer material by means of a belt conveyor	2	4
243650	Handle waste material in a metallurgical plant	2	4
	TOTAL CREDITS		8

2. Site specific core unit standards

NLRD Number	Standard title	NQF Level	Credits
	Crushing		
253339	Crush material in a metallurgical plant	3	9
	TOTAL CREDITS		9

3. Elective Unit standards

NLRD Number	Standard title	NQF Level	Credits
252324	Remove ferromagnetic material from a belt conveyor by means of an over belt magnet	2	2
243650	Perform minor maintenance on metallurgical mechanical equipment	2	10
252315	Perform size separation in a metallurgical plant	2	6
252306	Control feed distribution by means of a mobile system	2	2
253595	Direct the operation of an overhead crane	2	3
252295	Transfer fluids by means of a pump	2	3
252354	De-water material by means of a vibrating screen	2	2
256662	Grind material in a metallurgical plant	3	11
254406	Recover diamonds by means of hand sorting	2	6
252280	Remove airborne pollutants by means of a scrubber	2	3
252340	De-water material by means of a de-watering screen	2	2
252284	Classify material in a metallurgical plant	2	6
261017	Monitor and control a metallurgical plant from a control room	4	15
252304	Control the water reticulation in a metallurgical process	2	4
260980	Oversee a crushing and screening operation in a metallurgical plant	4	15
254401	Control water quality in a cooling system	2	6
252331	Remove air-borne dust by means of a bag filter	2	3
252305	Remove ferromagnetic material from a belt conveyor by means of an over belt magnet	2	3
252330	Control feed rate by means of a feeder	2	2