

Skills Programme Details

Skills Programme in Milling of material

MQA ID: MQA/SP/0052/09

NQF Level: 2

Minimum Credits: 18

Purpose of Skills Programme

This skills programme is aimed at persons who work or intend to work within the Milling 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 Milling 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 to 4) 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

18 X 10 = 180 Hours

= 18/6 hours = 30 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
252295	Transfer fluids by means of a pump	2	3
256662	Grind material in a metallurgical plant	3	11
	TOTAL CREDITS		18

3. Elective Unit standards

NLRD Number	Standard title	NQF Level	Credits
252284	Classify material in a metallurgical plant	2	6
252315	Perform size separation in a metallurgical plant	2	6
252354	De-water material by means of a vibrating screen	2	2
252338	Perform minor mechanical maintenance on metallurgical process equipment	2	6
256697	Maintain grinding medium load in a rod mill	2	6
252343	Recover metal by means of centrifugal concentration.	2	3
252341	Perform gravity concentration in a metallurgical plant	2	6
260986	Control milling and classification operations in a metallurgical plant	4	17
252340	De-water material by means of a de-watering screen	2	2
252337	Handle liquid cyanide safely in a metallurgical plant (version 2)	2	4
252302	Handle inorganic reagents safely in a metallurgical plant	2	6
252286	Handle organic reagents safely in a metallurgical plant	2	4
252304	Control the water reticulation in a metallurgical process	2	4
256704	Control an ore storage transport system	4	10
254405	De-slime material by means of a screen	2	2
243650	Handle waste material in a metallurgical plant	2	4
252350	Determine relative density by means of a density scale	2	3
252331	Remove air-borne dust by means of a bag filter	2	3
252330	Control feed rate by means of a feeder	2	2
252309	Maintain steel ball load in a mill by means of a suspended magnetic loading system	2	3
10740	Lift and move a load	3	7