

Skills Programme Details

Skills Programme in Dense Medium Separation

MQA ID: MQA/SP/0107/09

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 dense medium separation 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 dense medium separation 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 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

= 180/6 hours = 30 Days

Composition of the Skills Programme

1. Generic Core Unit standards

NLRD Number	Standard title	NQF Level	Credits
	Materials transport and handling		
252350	Determine relative density by means of a density scale	2	3
243650	Handle waste material in a metallurgical plant	2	4
252324	Transfer material by means of a belt conveyor	2	4
252330	Control feed rate by means of a feeder	2	2
252295	Transfer fluids by means of a pump	2	3
	TOTAL CREDITS		16

2. Site specific core unit standards (at least one must be achieved to complete the skills programme)

NLRD Number	Standard title	NQF Level	Credits
	Separate material		
254400	Make-up a heavy medium suspension 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
252284	Classify material in a metallurgical plant	2	6
254414	Perform dense medium separation in a metallurgical plant	2	7

3. Elective unit standards

NLRD Number	Standard title	NQF Level	Credits
252338	Perform minor maintenance on metallurgical mechanical equipment	2	10
254405	De-sliming material by means of a screen	2	2
252302	Handle inorganic reagents safely in a metallurgical plant	2	6
115093	Control workplace hazardous substances	3	4
252306	Control feed distribution by means of a mobile system	2	2
252293	Deposit waste rock onto a waste dump by means of a belt conveyor system	2	3
252280	Remove air-borne dust by means of a bag scrubber	2	6
15298	Transfer material by means of pneumatic conveying system	2	4
10541	Direct the operation of an overhead crane	2	3
252315	Perform size separation in a metallurgical plant	2	6
252282	Thicken slurry in a metallurgical plant	2	4
252324	Remove ferromagnetic material from a belt conveyor by means of an over belt magnet	2	2
252349	Generate compressed air	2	3
10740	Lift and move a load	3	7