

## Skills Programme Details

### Skills Programme in Flotation of material

**MQA ID: MQA/SP/0072/09**

**NQF Level: 2**

**Minimum Credits: 13**

#### **Purpose of Skills Programme**

This skills programme is aimed at persons who work or intend to work within the Flotation 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 Flotation 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

13 X 10 = 130 Hours

= 13/6 hours = 22 Days

## Composition of the Skills Programme

### 1. Generic Core Unit standards

NLRD Number	Standard title	NQF Level	Credits
	<b>Core to all flotation operations</b>		
252295	Transfer fluids by means of a pump	2	3
256661	Recover a mineral from ore by means of froth flotation	3	10
	<b>TOTAL CREDITS</b>		<b>13</b>

### 3. Elective Unit standards

NLRD Number	Standard title	NQF Level	Credits
252315	Perform size separation in a metallurgical plant	2	6
252317	Off-load organic reagents into a storage facility	2	6
252286	Handle organic reagents safely in a metallurgical plant	2	4
261017	Monitor and control a metallurgical plant from a control room	4	15
252349	Generate compressed air	2	3
252304	Control the water reticulation in a metallurgical process	2	4
252350	Determine relative density by means of a density scale	2	3
252284	Classify material in a metallurgical plant	2	6
252335	Handle acids safely in a metallurgical plant	2	6
252302	Handle inorganic reagents safely in a metallurgical plant	2	6
252332	Slake Lime	2	4
252329	Control the pH level in a metallurgical process	2	4
256725	Condition material for further processing	2	3
252312	Make up organic reagents in a metallurgical plant	2	6