MPQMG32
Separate and dispose of wastes and by-products from mining and related processing activities

Overview

This standard states the skills, knowledge and understanding required to efficiently separate and dispose of wastes and by-products arising from the mining of materials and subsequent processing activities. The standard includes the separation of required mineral from the waste, and disposal of the waste and unwanted by-products of processing the mineral according to organisational procedures. The activity can be carried out above or below ground. The waste or by-product could be a solid material or a suspension in a fluid (a slurry).

This standard is appropriate to any mining operatives who are involved in the separation or processing (initial, intermediate of final) of mined materials to produce a saleable product.

Performance criteria

You must be able to:

- P1 carry out the work activity in compliance with **approved policies, procedures and practices**
- P2 identify the hazards and risks associated with the work activity
- P3 communicate with others using the agreed communication method
- P4 obtain and interpret information on the work activity required
- P5 agree with others the work to be carried out
- P6 confirm sufficient **resources** are available to support the work activity
- P7 check the suitability of the available **resources**
- P8 check, operate, monitor, adjust and shut down separation and disposal plant, machinery or equipment according to organisational procedures
- P9 separate waste or by-product from mined material
- P10 operate and adjust plant, machinery or equipment to maximise output of on-specification material and minimise waste or by-product
- P11 clear up spills and accumulations of materials
- P12 dispose of wastes and by-products in predetermined locations by specified methods and routes
- P13 make adjustments to the work plan within limits of own responsibilities to complete the work
- P14 report according to organisational requirements

Knowledge and understanding

You need to know and understand:

K1 the organisational **approved policies, procedures and practices** as appropriate to the work activity

K2 the hazards and risks associated with the work activity, how they can affect yourself, others or the environment, and how they are controlled

K3 what, when and why additional personal protective equipment should be used in waste separation and disposal

K4 the organisational information, communications and reporting arrangements relating to the work activity

K5 the purpose of the separation and disposal activities

K6 how to identify the required materials from the wastes or by-products

K7 why the specific organisational separation and disposal activities are used

K8 the **resources** required to complete or support the work activity, their uses, how to check them, and how to secure, store or dispose of them after use

K9 how to check, start, operate, monitor, adjust and shut down (in routine and emergency situations) the plant, machinery or equipment used for the separation and disposal activities

K10 why it is important to separate materials

K11 why the waste or by-product is separated at the specified time or point in the operational cycle

K12 the types of problems and faults that can occur in the work activity how they can be identified, and how to respond to them

K13 the consequences of ineffective separation and disposal of waste and by-products

K14 the limits of your own personal responsibility

K15 reporting procedures on completion of the work

Additional information

Scope/range

1 **approved policies, procedures and practices;** legislative, organisational, operational, accident and emergency, health and safety, first aid and environmental as appropriate to the location and work activity

2 **resources:** tools and equipment, consumables, attachments, replacement parts and other resources as appropriate to the work activity

Glossary

Waste: any material that has been excavated or extracted as part of the mining process, which is not the desired mineral or is of an inferior quality. The waste may be a solid, or a suspension of solid material in a fluid

By-products: any material that has been excavated or extracted as part of the mining process, which is not the desired mineral but may be of some commercial value now or on some future occasion. The by-product may be a solid, or a suspension of solid material in a fluid

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