MPQMG12
Operate mining extraction plant or machinery

Overview

This standard states the skills, knowledge and understanding required to operate mobile mining machinery designed to mine, extract or dig minerals underground. It includes the interpretation of information, setting up, operating and shutting down the machinery, including the selection and use of materials, components or equipment required for the operation of the primary machine, in a safe, healthy and efficient manner.

The standard applies to plant or machinery that wins or digs the material and off-loads to a conveyor, storage, other mobile plant or alternative transport system. It applies to mobile plants, such as continuous miners, hydraulic excavators or front-end loaders that are used to extract materials or materials which have been previously loosened by other mining equipment or blasting.

The standard applies to anyone operating the mining plant or machinery to extract materials, whether the material is extracted for sale, processing, clearance, or to gain access to saleable material.

Performance criteria

You must be able to:

P1 agree with others the work to be carried out

P2 check the availability and suitability of the **resources** required for the operation of the **plant or machinery**, and completion of the work

P3 confirm that the **plant or machinery** is safe and ready to operate

P4 follow start up procedures according to organisational and safety requirements

P5 operate the **plant or machinery** to extract ground, face or loose material in accordance with **approved policies, procedures and practices**

P6 monitor the performance of the **plant or machinery**

P7 make adjustments to the **plant or machinery**

P8 make adjustments to the work plan as required to complete the work within limits of your responsibilities

P9 carry out the work minimising risks to yourself, others, plant and machinery and the work environment

P10 follow shut down procedures according to organisational and safety requirements

P11 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 organisational information, communications and reporting arrangements relating to the work activity

K3 the **resources** required to support the work activity, their uses, how to check them, and how to secure, store or dispose of after use

K4 the operational instructions for starting, operating, adjusting, shutting down (in routine and emergency situations), and securing after use the **plant or machinery**

K5 the operational capacity and limitations of the **plant or machinery**

K6 how to monitor the performance of the **plant or machinery**

K7 how to confirm that the extracted material is as required

K8 when and why adjustments to the **plant or machinery**, and the work activity may be required

K9 the hazards and risks associated with the work activity, how they affect yourself, others and the work environment, and how they are controlled

K10 problems that can occur with the work activity, and how to respond to them

K11 the limits of your own role and responsibilities

K12 the actions to be taken in the event of damage, breakdown or unsatisfactory performance of plant, machinery, equipment or resources

Additional information

Scope/range

1 **approved policies, procedures and practices**: legislative, organisational, operational, accident or emergency, health and safety, first aid, and environmental as appropriate to the mine, plant or machinery, and work activity

2 **plant or machinery**: operate one or more of the following categories of mobile plant or machinery – continuous miner; hydraulic excavator (180 degree or 360 degree, back actor or face shovel); front end loader (wheeled or tracked); skid steer loader; trencher; motorised scraper; loader compressor; other specialised mobile mine mineral extraction plant

3 **resources**: tools; equipment; utilities and services; consumables; attachments; replaceable parts; other resources as appropriate to the work activity

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