MPQMG08
Construct shafts in mines

Overview

This standard is about the skills knowledge and understanding required to excavate and profile shafts in mines. This involves using specialist shaft sinking equipment. It applies equally to shafts sunk from the surface and to staple shafts sunk underground. The standard includes communications and use of resources to complete the task.

This standard would normally apply to specialist miners, shaft sinkers or tunnellers carrying out this function, but could also apply to any miner in conjunction with their normal mine work.

Performance criteria

You must be able to:

P1 obtain information on the required sinking operation

P2 agree with others the work to be carried out

P3 confirm sufficient **resources** are available to support the shaft sinking activity

P4 check the suitability of the available **resources**

P5 organise the work area to minimise risks

P6 establish exclusion zones and post warning notices

P7 determine and set out the dimensions and direction of the required shaft

P8 check, start, operate and stop mine shaft sinking plant and equipment

P9 excavate and profile shafts to specification and in allocated time

P10 carry out work in compliance with **approved policies, procedures and practices**

P11 make adjustments to the work plan within limits of own responsibilities as required to complete the work

P12 store **resources** in accordance with **approved policies, procedures and practices**

P13 deal with defective **resources** or defective sinking plant or equipment in accordance with **approved policies, procedures and practices**

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

K3 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

K4 the types and characteristics of the shaft sinking plant and equipment within your limits of responsibilities

K5 how to set up the direction and dimensions of the required shaft sinking

K6 how to check, start, operate and stop (in routine and emergency situations) shaft sinking plant and equipment

K7 the hazards and risks associated with the work activity, how they can affect yourself, others or the environment, and how they are controlled

K8 the precautions to be taken whilst shaft sinking

K9 the precautions to be taken whilst working at height

K10 what, when and why additional personal protective equipment should be used in shaft sinking operations

K11 the problems that can occur when shaft sinking and how to respond to them

K12 the limits of your own personal responsibility

K13 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 mine and work activity

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

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