MPQMG07
Excavate and profile mine tunnels

Overview

This standard is about the skills knowledge and understanding required to excavate and profile tunnels in mines. The tunnels may be for any mining purpose; winning mineral, transportation, access, storage or any other purpose. This involves using specialist mining and tunnelling equipment. The standard includes communications and use of resources to complete the task.

This standard could apply to any miner in conjunction with their normal mine work.

Performance criteria

You must be able to:

- P1 obtain information on the required tunnelling operation
- P2 agree with others the work to be carried out
- P3 confirm sufficient **resources** are available to support the tunnelling equipment
- 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 tunnel
- P8 check, start, operate and stop mine tunnelling plant and equipment
- P9 excavate and profile tunnels 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 tunnelling plant or equipment components 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 tunnelling plant and equipment within your limits of responsibilities

K5 how to determine and set out the direction and dimensions of the required tunnel

K6 how to check, start, operate and stop (in routine and emergency situations) tunnelling 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 excavating and profiling tunnels

K9 what, when and why additional personal protective equipment should be used excavating or profiling tunnels

K10 the problems that can occur when tunnelling and how to respond to them

K11 the limits of your own personal responsibility

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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