

Determine the blast requirements

Overview

Determine the blast requirements in accordance with approved procedures and practices.

This standard comprises the following:

- 1 Identify the area for blasting
- 2 Determine the objectives of the blast

You will be required to demonstrate that you can determine the quality and extent of mineral materials for removal and you have assessed and confirmed with the relevant persons in accordance with the relevant workplace procedures.

This activity is likely to be undertaken by someone whose work role involves Weapons, Ordnance, Munitions or Explosives work activities. This includes blasting personnel.

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Performance criteria

You must be able to: 1 Identify the area for blasting

P1 the location and area for blasting is identified and confirmed to conform with the overall development plans of the site

P2 the quality and extent of mineral materials for removal are assessed and confirmed with the relevant persons and the operational requirements

P3 any geological anomalies of the blast site are identified visually and recorded to be taken into account in the blast design

P4 dimensional information is collected and recorded in accordance with the blast specification requirements

P5 the effects of the blast are considered on quarry plant, buildings, external features and the surrounding environment

P6 potential hazards and danger sources are accurately identified and recorded in the blast specification

P7 work is carried out to approved procedures and practices and in compliance with statutory requirements

2 Determine the objectives of the blast

P8 the geological makeup of the ground and mineral strata is visually surveyed and evaluated for matching with the specified requirements

P9 the extent of ground and mineral materials to be removed with the blast operation is confirmed and agreed with the relevant persons (i.e. operator; manager; explosives supervisor; blasting team; contractors)

P10 the fragmentation requirement of the blast is confirmed to meet with the production plant capabilities

P11 the extent of the blast is determined from the production requirements, the fragmentation and geological makeup of the ground and mineral strata, face provision and availability and drill size

P12 possible hazards and dangers resulting from a blast are identified and recorded for consideration in the blast design

P13 work is carried out to approved procedures and practices and in compliance with statutory requirements

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Knowledge and understanding

You need to know and understand: 1 Identify the area for blasting and 2 Determine the objectives of the blast

- K1 Health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives and their implications for your area of work
- K2 How to interpret the specification for blasting
- K3 The geological anomalies that affect the blast specification
- K4 Plans, vertical sections, symbols and terminology
- K5 Measuring instrumentation and techniques
- K6 Potential hazards, dangers and effects of signal interference

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