
Overview

Design and arrange for the authorization of the blast specification in accordance with approved procedures and practices.

This standard comprises the following:

- 1 Collate information for the blast design
- 2 Produce a detailed blast specification
- 3 Arrange for the authorization of the blast specifications

You will be required to demonstrate that you can determine design and arrange for the authorization of the blast specification 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.

Performance criteria

You must be able to: 1 Collate information for the blast design

P1 information from records of previous blasts are examined and evaluated in determining the blast design

P2 information determined through assessment of the blast requirements is evaluated for the blast design

P3 constraints and capabilities of plant and equipment used for moving and processing mineral materials are identified and taken into account in the blast design

P4 all information is collectively evaluated to determine the blast design

P5 approved procedures and practices are incorporated to minimize danger to persons, damage to plant and equipment and the environment

P6 proactive audits of written procedures and rules concerning minimizing danger to persons, and damage to plant, equipment and the environment have been carried out

P7 problems are identified and communicated to the appropriate person(s)

P8 work is carried out to approved procedures and practices and in compliance with statutory requirements

2 Produce a detailed blast specification

P9 design of the blast specification is developed for the pattern and size of charge required

P10 types of explosive materials, method of initiation and shotfiring system are clearly stipulated in accordance with operational and organization rules and procedures and comply with legislative requirements

P11 the blast specifications are designed in accordance with approved procedures and practices and conforms with the requirements of legislation

P12 information and details of the blast specifications are recorded in accordance with operational and organizational rules and procedures

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

3 Arrange for the authorization of the blast specifications

P14 specifications for the preparation requirements of the blast operation are designed in accordance with operational and organization rules and procedures

P15 information from the preparation activities is evaluated and any variations

to the blast specification are identified

P16 records of the blast design and its specifications are maintained in accordance with operational and organizational rules and procedures and in compliance with legislative requirements

P17 rules and procedures for the storing, transporting and handling of explosives are clearly established which comply with legislative requirements

P18 requirements for safety and security of the blast operations are clearly identified and communicated to all appropriate and relevant persons

P19 authorization of the blast specification is arranged in accordance with operational and organizational rules and procedures and comply with legislative requirements

P20 the blast specifications are agreed and communicated with all relevant persons in accordance with operational and organization rules and procedures

P21 work is carried out to approved procedures and practices and in compliance with statutory requirements

Knowledge and understanding

You need to know and understand:

- 1 Collate information for the blast design and
- 2 Produce a detailed blast specification

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 types of explosive materials, their strengths and characteristics (ie explosives; detonating devices; blasting agents; blasting accessories)

K3 types of initiating systems

K4 methods and techniques involved with preparing blasting specifications

K5 the candidate's responsibilities under relevant parts of the legislation applying to the extractive industries for producing a detailed blast specification

K6 assessment of the extent of the danger zones

K7 interpretation of preparation activities (e.g. drillers log; profiling)

- 3 Arrange for the authorization of the blast specifications

K8 types of explosives materials, their strengths and characteristics

K9 types of shottfiring systems

K10 the candidate's responsibilities under relevant parts of the legislation applying to the extractive industries for producing a detailed blast specification

K11 responsibilities to vary the blast specifications

K12 effects on blast performance of variations in blast specification

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