

Charge blast holes to specification

Overview

Charge blast holes to specification in accordance with approved procedures and practices.

This standard comprises the following:

- 1 Check blast sites prior to charging
- 2 Prepare the explosive materials
- 3 Charge blast holes with explosive materials
- 4 Remove and dispose of surplus materials

You will be required to demonstrate that you can charge blast holes to specification in accordance with the relevant workplace procedures.

This activity is likely to be undertaken by someone whose work role involves explosives work activities. This includes blasting personnel.

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Performance criteria

You must be able to: 1 Check blast sites prior to charging

P1 written information relevant to the blasting specification is scrutinized and checked as complete and any ambiguities are clarified with authorized persons

P2 each blast hole is checked for condition, dimension, angle, inclination and direction as appropriate to ensure it is suitable for charging to the blast specification

P3 any variations to the blasting specification are identified, recorded, reported and confirmed to the appropriate persons

P4 problems and conditions outside the responsibility of the candidate are referred to an authorized person

P5 work is carried out to approved procedures and practices and in compliance with statutory requirements

2 Prepare the explosive materials

P6 explosives are correctly checked to ensure they conform in quantity and type to the blasting specification

P7 explosives are handled and prepared in conformity with the manufacturers' recommendations, operational and organizational rules and procedures and with relevant legislation

P8 precautions are taken to protect materials and personnel against adverse environmental conditions

P9 required quantities of explosives are prepared in accordance with the blast specification

P10 problems and conditions outside the responsibility of the candidate are referred to an authorized person

P11 work is carried out to approved procedures and practices and in compliance with statutory requirements

3 Charge blast holes with explosive materials

P12 explosive materials are handled in accordance with the operational and organizational rules and procedures and charge blast holes to specification with relevant legislation

P13 the charging of blast holes is in accordance with the blasting specification

P14 detonators and primers are placed accurately in conformity with the blasting specification

P15 use of non-explosive materials is in conformity with the blasting specification

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P16 precautions are taken to protect materials and personnel against adverse environmental conditions

P17 variations between the specification and the actual conditions at the time of charging are identified and reported in conformity with operational and organizational rules and procedures

P18 surplus explosive materials and packaging are removed to a safe and secure place in accordance with organizational rules and procedures

P19 problems and conditions outside the responsibility of the candidate are referred to an authorized person

P20 work is carried out to approved procedures and practices and in compliance with statutory requirements.

4 Remove and dispose of surplus materials

P21 explosive materials which are surplus to requirements are returned to store and correctly packaged and labelled and records maintained

P22 approved procedures and practices for disposal of surplus materials are correctly interpreted and implemented

P23 disposal site is located safely and correctly in accordance with operational and organizational rules and procedures

P24 hazards arising from adverse environmental conditions are correctly identified and interpreted and appropriate action taken charge blast holes to specification

P25 problems and conditions outside the responsibility of the candidate are referred to an authorized person

P26 work is carried out to approved procedures and practices and in accordance with statutory requirements

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Knowledge and understanding

You need to know and understand: 1 Check blast sites prior to charging

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 written information relating to the operation

K3 the principles and practice of ensuring blast hole suitability

K4 measuring instrumentation and techniques

K5 reporting procedures

K6 potential hazards

K7 dangers and effects of adverse environmental conditions

K8 limits of own responsibility

2 Prepare the explosive materials

K9 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

K10 types and range of explosive materials

K11 effects of adverse environmental and site conditions on explosives, system performance and premature ignition

K12 manufacturers' recommendations and site rules for handling ingredients and explosives

K13 relevant legislation

3 Charge blast holes with explosive materials

K14 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

K15 types and range of explosive materials

K16 detonators, priers, detonating cord and their characteristics

K17 the candidate's responsibilities under relevant parts of the legislation applying to the extractive industries

K18 effects of water in blast holes and the limitations on choice of explosive and initiating system

K19 reasons for blockages in holes and authorized remedial action

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4 Remove and disposal of surplus materials

K20 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

K21 approved methods of removal and disposal of surplus materials

K22 explosive types and susceptibility to detonation

K23 explosives regulations relating to packaging and labelling

K24 correct and effective packaging of surplus explosives

K25 how to access and correctly interpret the relevant guidance

K26 increased danger of accidental detonation of explosive materials during disposal

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