

Supervise the blasting operation

Overview

This standard comprises the following:

- 1 Supervise the preparation for the blast
- 2 Supervise the firing of the blast
- 3 confirm the conclusion of the blast

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 Supervise the preparation for the blast

P1 blast specification(s) are authorized and approved according to approved procedures and practices

P2 changes to the blast specification are approved and authorized.

P3 effective communication is established and maintained with relevant person(s)

P4 arrangements are made for the delivery and receipt of sufficient, suitable materials to meet the blast specification.

P5 adequate security measures for on-site explosives are maintained and records completed

P6 explosives are issued to relevant person(s) in accordance to approved practices and procedures

P7 checks are carried out to ensure activities involving the use, transportation and storage of explosives or explosive substances are carried out by relevant person(s)

P8 arrangements are made to ensure environmental controls are set up and monitored to meet local requirements

P9 blast sites are identified and established according to approved procedures and practices.

P10 potential risks are identified and appropriate action taken to eliminate or minimize.

P11 requirements for safety and security of the blast operations are clearly identified and communicated to all relevant person(s)

P12 problems and conditions referred by others are dealt with appropriately

P13 problems and conditions outside the responsibility of the candidate are referred to relevant person(s)

P14 work is carried out to approved procedures and practices and in compliance with statutory requirements

2 Supervise the firing of the blast

P15 checks are established and conducted to confirm the blast site conforms to the blast specification.

P16 limits of the danger zone are confirmed and approved according to approved procedures and practices

P17 tools and equipment are approved as safe and suitable to meet the blast specification

P18 arrangements are made to ensure the removal of surplus explosives and the disposal of packaging.

P19 position and form of the blast initiation site are confirmed and approved

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according to site operational procedures

P20 procedures are implemented to confirm evacuation of the danger area, and that visitors and contractors are in designated areas.

P21 authorization to the shotfirer to blast at an agreed time is given when operating and environmental conditions are confirmed as suitable, according to approved procedures and practices

P22 problems and conditions referred by others are dealt with appropriately

P23 problems and conditions outside the responsibility of the candidate are referred to relevant person(s)

P24 work is carried out to approved procedures and practices and in compliance with statutory requirements

3 Confirm the conclusion of the blast

P25 records are maintained and stored in accordance with operational and organizational rules and procedures

P26 post-blast inspection is carried out according to approved procedures and practices

P27 post-blast remedial work is approved according to operational procedures

P28 on completion of the blasting operation, approval is given for the removal of warning and security arrangements, and to signal that the area is returned to normal operational status, according to approved procedures and practices

P29 overpressure and vibration are monitored and recorded, and checked to ensure they conform to local requirements

P30 site-specific shotfiring rules and procedures are monitored and reviewed, and recommendations made.

P31 problems and conditions referred by others are dealt with appropriately

P32 problems and conditions outside the responsibility of the candidate are referred to relevant person(s)

P33 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 Supervise the preparation for 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 work
- K2 how to interpret the blast specification
- K3 reasons for post-blast slippage of ground and its effects
- K4 effects of adverse environmental and site conditions
- K5 causes of and dangers from flyrock
- K6 Public roads and rights of way
- K7 the relevant persons, as appropriate to site, associated with the activity
- K8 the appropriate environmental controls
- K9 types of detonating devices and explosives used
- K10 types of approved circuit testers for use in surface operations
- K11 blast patterns
- K12 types and uses of shotfiring tools and equipment
- K13 determination of danger zones
- K14 drilling methods and equipment
- K15 methods of production and interpretation of survey information
- K16 setting up, aligning and measuring drill holes
- K17 recognition of relevant information from drill holes and drilling features
- K18 recognition of natural joints, cavities and other geological features
- K19 methods of testing initiation systems
- K20 hazards associated with, and methods to minimize premature ignition

2 Supervise the firing of the blast

- K21 health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives and their implications for your work
- K22 how to interpret the blast specification
- K23 effects of adverse environmental and site conditions
- K24 types of warning systems
- K25 methods of testing initiation systems
- K26 the relevant persons, as appropriate to site, associated with the activity

3 Confirm the conclusion of the blast

- K27 health, safety and environmental and other statutory legislation, regulations and safe working practices and procedures governing explosives and their implications for your work
- K28 Hazards associated with misfires and unexploded charges

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K29 Recognition of misfires

K30 Reasons for post-blast slippage of ground and its effects

K31 Dangerous effects of fumes created by blasting

K32 site examination after firing

K33 recognition of natural joints, cavities and other geological features

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