

Unit Ref:	BL611
Ofqual Ref:	L/615/4613
Title:	Supervising the Blasting Operation
Level:	5
Credit value:	16
Guided Learning Hours:	120
Performance learning outcome <i>The learner will:</i>	Performance assessment criteria <i>The learner can:</i>
1. Be able to supervise the blasting operation.	<p>1.1 Confirm self as being in charge of the blasting operation to relevant persons.</p> <p>1.2 Organise, co-ordinate and supervise all work involving explosive materials.</p> <p>1.3 Ensure that all rules and procedures are current, appropriate for the work activity and blasting environment, and meet statutory requirements and environmental conditions.</p> <p>1.4 Check that blasting personnel have a correct and current appointment or authorisation for their job role.</p> <p>1.5 Ensure blasting personnel are trained and competent to undertake their assigned job role.</p> <p>1.6 Ensure the security, storage, transportation and use of explosives on site conforms to regulations and work instructions.</p> <p>1.7 Ensure blast specifications meeting organisational and statutory requirements are prepared and authorised.</p> <p>1.8 Check that all blasting related equipment provided is:</p> <ul style="list-style-type: none"> • sufficient; • in good repair; • correct; • safe for the work activity. <p>1.9 Check that site conditions are in line with the blast specification.</p> <p>1.10 Audit blast performance.</p> <p>1.11 Check that inspections for misfires have taken place.</p> <p>1.12 Maintain records of:</p> <ul style="list-style-type: none"> • appointments; • blast specifications; • explosives usage; • testing of equipment. <p>1.13 Carry out work activities according to the approved policies, procedures and practices.</p> <p>1.14 Review the Shotfiring Rules and take any appropriate action.</p>
Knowledge learning outcome <i>The learner will:</i>	Knowledge assessment criteria <i>The learner will know and understand:</i>
2. Understand how to supervise the blasting operation.	<p>2.1 The approved policies, procedures and practices in the context of the work activity.</p> <p>2.2 The legislative requirements in the blasting environment.</p> <p>2.3 Own responsibilities under the Health and Safety Statutory Requirements, and the limits of own responsibilities.</p> <p>2.4 The roles and responsibilities of the relevant persons, as appropriate to site, and associated with the work activity.</p> <p>2.5 The policies, rules, procedures and records required by statute in relation to blasting operations.</p> <p>2.6 Site shotfiring rules and particularly those in relation to the blasting operations and site.</p> <p>2.7 The statutory requirements and practical methods for the safe and secure storage of explosive materials.</p> <p>2.8 The training and competence requirements for those involved in the</p>

	<p>blasting process and how these can be achieved.</p> <p>2.9 Appointments and authorisation of blasting operations personnel.</p> <p>2.10 The site security in relation to blasting operations.</p> <p>2.11 The powers and duties of sentries.</p> <p>2.12 The methods and use of communication systems in the working environment.</p> <p>2.13 The types of warning systems.</p> <p>2.14 The site and work activity emergency procedures.</p> <p>2.15 Drilling methods and equipment.</p> <p>2.16 The setting up, aligning, checking and measuring of drill holes.</p> <p>2.17 The information available from drill holes and drilling records.</p> <p>2.18 How to identify natural joints, cavities and other geological features through training relevant to own job role.</p> <p>2.19 The purpose and methods of profiling faces.</p> <p>2.20 The methods of production and interpretation of survey information.</p> <p>2.21 The importance, purpose and methods of blast calculation and design.</p> <p>2.22 Blasting specifications:</p> <ul style="list-style-type: none"> • purpose; • content; • interpretation. <p>2.23 The range of potential blast patterns.</p> <p>2.24 The assessment and determination of danger zones.</p> <p>2.25 The considerations to be given to public transport routes and rights of way.</p> <p>2.26 The standards for maintenance of explosive storage facilities.</p> <p>2.27 The recording of explosive materials in storage and use.</p> <p>2.28 Transportation methods for explosive materials.</p> <p>2.29 The types of initiating and detonating devices and explosive materials used for the blasting operations.</p> <p>2.30 The types, uses and maintenance of shotfiring tools and equipment.</p> <p>2.31 The methods of checking or testing initiation systems.</p> <p>2.32 The methods of protecting the blast site.</p> <p>2.33 The hazards and risks associated with, and methods to avoid premature or sympathetic initiation.</p> <p>2.34 How and why to clear overfilled or incorrectly filled blast holes.</p> <p>2.35 The purpose and methods of stemming.</p> <p>2.36 The effects of adverse environmental and site conditions on blasting operations.</p> <p>2.37 The purpose and methods of post blast inspections.</p> <p>2.38 The identification and causes of post blast falls of rock and slippage of ground and their effects.</p> <p>2.39 The causes of, effects, and methods of the controlling, recording and analysing ground vibration and air over pressure.</p> <p>2.40 The hazards and risks associated with misfires and unexploded charges.</p> <p>2.41 The causes, identification, dangers, rectification and investigation of misfires.</p> <p>2.42 The hazards and risks arising from blast fumes, and how to control them.</p> <p>2.43 The causes of and dangers from flyrock, and how to eliminate it.</p> <p>2.44 The environmental aspects and impacts associated with blasting and how to control them.</p> <p>2.45 The disposal of waste materials from the blasting operation.</p> <p>2.46 The recognition, handling and safe disposal of deteriorated, waste, recovered and surplus explosive materials.</p> <p>2.47 The auditing and recording of blast performance.</p> <p>2.48 The importance of developing, monitoring, reviewing and amending policies, procedures and rules relating to blasting operations.</p>
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