

Unit Ref:	BL614
Ofqual Ref:	D/615/4616
Title:	Loading Blast Holes with Bulk Explosive to Blast Specification
Level:	3
Credit value:	6
Guided Learning Hours:	20
Performance learning outcomes <i>The learner will:</i>	Performance assessment criteria <i>The learner can:</i>
1. Be able to load blast holes with bulk explosive to blast specification.	<ul style="list-style-type: none"> 1.1 Check written information relevant to the blasting specification is complete and unambiguous. 1.2 Establish and maintain communications with the shotfirer and agree the procedure for the work activity. 1.3 Check the access to the loading points, and the condition of the loading area and confirm they are suitable for the vehicle and loading operation. 1.4 Check that personal, vehicle and area protection and safety arrangements are appropriate. 1.5 Check the vehicle is earthed and equipment is ready to mix. 1.6 Mix materials to meet the blast specification requirements. 1.7 Load blast holes in accordance with the blasting specification and under the direction of the shotfirer. 1.8 Monitor the performance of the mixing truck. 1.9 Check the quality of the bulk explosive materials produced is checked and confirmed as meeting requirements. 1.10 Make adjustments to modify truck performance, loading or quality. 1.11 Reposition vehicle as required for optimum performance. 1.12 Take precautions to protect vehicle and personnel against adverse environmental conditions. 1.13 Record blast loading, identifying and reporting variations between the specification and the actual conditions at the time of loading. 1.14 Purge the system. 1.15 Position all tools and equipment on the vehicle and secure them for leaving the blast site. 1.16 Ensure work activity documentation is completed. 1.17 Prepare the vehicle for travel. 1.18 Drive vehicle from blast location by approved route. 1.19 Notify the responsible person that work is completed and site has been vacated. 1.20 Carry out work activities according to the approved policies, procedures and practices.
Knowledge learning outcomes <i>The learner will:</i>	Knowledge assessment criteria <i>The learner will know and understand:</i>
2. Understand how to load blast holes with bulk explosive to blast specification.	<ul style="list-style-type: none"> 2.1 The approved policies, procedures and practices in the context of the work activity. 2.2 Own responsibilities under the health and safety statutory requirements. 2.3 Blast specifications. 2.4 The written information relating to the bulk explosive truck operation. 2.5 The principles and practice of ensuring blast hole suitability. 2.6 Bulk explosive truck operations measuring instrumentation and techniques. 2.7 The communications, reporting and recording arrangements for the site, blast location and the work activity. 2.8 The potential hazards, risks and environmental aspects and impacts associated with bulk explosive loading. 2.9 The hazards and risks associated with the blasting environment. 2.10 How to assess the conditions of blast sites. 2.11 The effects of adverse environmental conditions.

	<p>2.12 The limits of own responsibility.</p> <p>2.13 The shotfirer's responsibilities in relation to loading of blast holes.</p> <p>2.14 The types and range of explosive materials.</p> <p>2.15 The characteristics of bulk explosive materials.</p> <p>2.16 The methods to monitor truck performance whilst loading holes.</p> <p>2.17 The methods to monitor the quality of bulk explosive produced.</p> <p>2.18 The methods to monitor filling of blast holes.</p> <p>2.19 How to calculate the quantities of explosive materials used.</p> <p>2.20 The effects of adverse environmental and site conditions on system performance.</p> <p>2.21 The effects of water in blast holes and the subsequent limitations on methods of loading.</p> <p>2.22 The causes of blockages in holes and authorised remedial action.</p> <p>2.23 The types of truck mixing problems that can arise during loading, and the corresponding remedial actions.</p> <p>2.24 The actions that can be taken in event of overloading or incorrectly filling blast holes with bulk explosive.</p> <p>2.25 The actions to be taken in the event of any variations to the blast specification.</p> <p>2.26 Purging techniques, and why purging is required.</p> <p>2.27 How to deal with excess mixed explosive materials.</p> <p>2.28 The standards for stowing tools and equipment and making the vehicle fit for travel.</p> <p>2.29 How and why to earth vehicles.</p> <p>2.30 Types of emergencies in relation to bulk explosive truck operation whilst loading blast holes, and how to respond to them.</p> <p>2.31 Actions to be taken in the event of problems occurring outside the limits of own responsibility.</p>
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