

Training Standard



Title	Diamond drilling advanced
Duration	Minimum 1 day of 6 hours learning
Purpose/ scope	<p>The purpose of training against this standard is to provide the candidates with the knowledge and understanding of carrying out Diamond Drilling operations safely</p> <p>The scope includes:</p> <ul style="list-style-type: none"> - diverse applications - collective protective measure - personal protective equipment (PPE) and respiratory protective equipment (RPE) - risk assessments and method statements (RAMS) - review of components - monitor and control exposure to vibration - drill motors and rigs suitable for large diameters - life expectancy of diamond bits & segments and guide replacements - identify the characteristics of diamond drilling - recording and measuring equipment - pre-start and post stop check - general maintenance - large diameter and deep drilling set ups - report, record and maintain records - ancillaries including extension rods and carriage extensions - carry out practical of diamond drilling 300 mm diameter and 107 diameters to a depth of 1 meter both horizontally and vertically - troubleshooting
Occupational relevance	<p>Training delivered against this standard would be relevant to the following occupational group(s):</p> <ul style="list-style-type: none"> • operative and craft
Candidate pre-requisites	<p>Undertaken the basic course and have an understanding of abrasive wheels, including the safe use of the angle grinder and diamond drilling or completed the basic diamond drilling course.</p>
Instruction/ supervision	<p>Trainer approval through the Drilling & Sawing Association (DSA) - approved training provider route is required.</p> <p>As part of the DSA approved training provider route, as a minimum, course instructors must be able to demonstrate that, in relation to this standard, they have:</p> <ul style="list-style-type: none"> • a minimum of 5 years technically competent experience • a verifiable CV • a train the trainer or instructional techniques course certificate

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Delivery	<p>Delivery methods for this course are classroom, demonstration and practical.</p> <p>The course can be delivered off the job environment.</p> <p>This course covers the range of drilling rigs and ancillary products on the market; it also looks at the various methods currently in use in the diamond drilling industry. The diamond drilling equipment and materials must be safe and sufficient and comply with the relevant legislation. The appropriate manufacturer's instructions must be accessible throughout the training.</p> <p>Copy of operator's manual provided by trainer</p> <p>The class size and candidate/instructor ratio must allow training to be delivered in a safe manner and enable candidates to achieve the learning outcomes.</p> <p>The classroom and demonstration aspects of the course can accommodate up to 8 delegates per course. The practical elements will always be performed to a 6:1 candidate: trainer ratio.</p>
Assessment	<p>For the successful completion of training, a learner will carry out an end-test in both theoretical and practical elements. These end-tests along with their contribution throughout the course will be evaluated by a competent trainer.</p>
Quality assurance	<p>Quality assurance against this standard will require initial approval of the training organisation and their content mapped to the standard.</p> <p>CITB will also conduct an approval intervention, either desk-based or centre visit, to ensure the training organisation can meet the requirements of the Training Standard.</p> <p>Approved training organisations (ATOs) will be required to present information on records of training and assessment upon request to CITB for desk-based analysis. They will also be visited annually by the CITB quality assurance team.</p>
Renewal	<p>Non-mandatory refresher recommended every 3 years.</p>
Approval date	<p>November 2018</p>
Review cycle	<p>Either on request or in 3 years from approval date</p>

Learning outcomes	Additional guidance to support learning outcome
<p><i>The candidate will be able to:</i></p>	
<p>Check the equipment for defects and check electric and water supply. Ensure protection i.e. barriers, signs, plastic sheeting, wet vacuum cleaner etc</p>	<p>Operators Manual</p>
<p>Ensure equipment safe and secure and appropriate manual handling and lifting techniques are carried out.</p>	
<p>Secure drill rig to concrete structure</p>	

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Ensure drill motor and select motor gear and drill bit	
Ensure electricity and water connections are fitted	
Select drill motor and apply steady pressure until completed	
Ensure all waste and debris cleared to appropriate area	
Ensure protection dismantled if appropriate	
Ensure the equipment checked for defects and defects tagged if required	
Ensure work area clean and tidy during construction on completion	
A general understanding of maintenance	

Additional information about this standard

This standard has been established using the Drilling and Sawing Association: code of practice and the national occupation standards (NOS) for QCF unit QCF223

Drilling and Sawing Association:- www.drillandsaw.org.uk

Related standards