

Training Standard



Title	Bursting 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 bursting operations safely</p> <p>The scope includes:</p> <ul style="list-style-type: none"> - diverse applications - collective protective measure - personal protective equipment (PPE), respiratory protective equipment (RPE) and local exhaust ventilation (LEV) - risk assessments and method statements (RAMS) - review of components and consumables - hydraulic pressure systems - use of multiple heads - life expectancy of bursting head - general maintenance - pre-start and post stop check - safe operations - maintain records - bursting head guide replacements - ancillaries - process of bursting and carry out bursting using pre-drilled holes on reinforced concrete structure - 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>The course is set out to show safe working practices and Industry practices. The Bursting 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. The question bank will reflect the standards questions within the qualification. 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	Non-mandatory refresher recommended every 3years
Approval date	November 2018
Review cycle	Either on request or in 3 years from approval date

Learning outcomes	Additional guidance to support learning outcome
<i>The candidate will be able to:</i>	
Check the equipment for defects and the power unit for oil, water and fuel and power supply.	Operators manual
Ensure equipment safe and secure and appropriate manual handling and lifting techniques are carried out.	
Ensure correct drilled hole diameter checked and protection from falling and flying debris.	

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Ensured precise markings of holes.	
Ensure area for bursting is severed from structure.	
Connect hoses and cables, and check for leaks etc.	
Ensure burster head inserted correctly and apply steady pressure until cracking occurs and to burst using wedges.	
To cut reinforcement using angle grinder and abrasive wheel or alternative methods.	
Ensure all waste and debris cleared to appropriate area and protection dismantled if appropriate.	
Check the equipment for defects and tag the defects if required.	
Ensure area clean and tidy during construction and 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

Bursting