

Training Standard



Title	Wire sawing 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 wire sawing operations safely</p> <p>The scope includes:</p> <ul style="list-style-type: none"> - diverse applications - large capacity machines - different pulley systems - review of components - life expectancy of diamond beads & types - use of dry diamond wire - maintenance - ancillaries - cutting process & techniques - process of wire sawing more practical element undertaken - 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	Undertaken the basic course
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 provides instruction in safe working practices and correct cutting procedures and methods to industry standards. The wire sawing equipment and materials must be safe and sufficient complying with the relevant legislation. The appropriate manufacturer's instructions must be accessible throughout the training.</p> <p>Copy of operator's manual & DSA Code of safe working practices 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 4:1 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
<i>The candidate will be able to:</i>	
Undertake inspection and pre-start checks	DSA Code of safe working practice
Select and use the correct ancillary equipment including personal protective equipment	
Select and use the correct plant/equipment	

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Understanding of machinery capabilities and the wire sawing process	Operators Manual
Prepare area for wire sawing, including protection of surrounding area	
Ensure precise markings for cut and connect hoses, cables, electric, water and pulley wheels and draw wire through guide holes and feed wire around the saw drive unit, twist wire and crimp securely	
Run wire at slow speed and low pressure, constantly monitor the speed and tension and build up to optimum speed until cut is completed.	
Understand problems arising within the wire sawing process and how to resolve them	
Be able to remove debris produced by the wire sawing process	
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 QCF226

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

Related standards

Wire sawing