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Welding Co-ordination, Consultancy & Inspection

The clock is ticking... are you prepared for CE Marking 2014?

- Q. Do you need help to achieve CE Mark accreditation?
- Q. Are your clients asking you more than ever to provide welding verification records & documentation?
- Q. Does your company need to demonstrate compliance with welding standards?
- Q. Are you thinking of improving your manufacturing standard and increase your workforce skill levels?
- Q. Are you confused about welding standards and the growing number of European Directives?
- Q. Do you need your existing welding procedures and welder qualification approvals reviewing and/or upgrading?
- Q. Has your company tendered or is it likely to tender for contracts where CE Mark conformity is expected?

If you have answered **YES** to any of the above **WE CAN HELP YOU!**



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What is CE Marking?

The CE Marking is a key indicator of a products compliance with EU legislation and enables the free movement of products within the European market. By affixing the CE Marking on a product, a manufacturer is declaring, on his sole responsibility, conformity with all of the legal requirements to achieve CE Marking and therefore ensuring validity for that product to be sold throughout the European Economic Area. This also applies to products made in Third Countries which are sold in the EEA. From 2010 Steelwork Contractors in European member states will be able to CE Mark their fabricated steelwork.

Whilst CE Marking will not be enforced immediately in the UK and Republic of Ireland it is likely to become a legal mandatory requirement in 2014 to be able to declare conformity with the requirements of BS EN 1090-1 and as a consequence achieve the CE Mark.

Factory Production Control (FPC) System BS EN 1090-1 defines the manufacturing controls required to ensure that structural steel components meet a range of clearly defined technical requirements relevant to their manufacture.

The steelwork contractor is required to have a documented welding quality management system (WQMS) and a nominated person(s) responsible for all welding activities i.e. Responsible Welding Coordinator (RWC).

This should be a person(s) who is competent with the technical knowledge to control and supervise a companies welding activities and BS EN 1090-2 sets out the technical knowledge required based on the companies declared execution class. The higher the nominated class, the more stringent quality related criteria will apply.

What is an Execution Class?

This is the type / class of work that the company undertake and the required system levels are as below:

Execution Class	System Level	Type Of Work Undertaken
EXC 1	Elementary Quality System (BS EN ISO 3834-4)	Farm Buildings
EXC 2	Standard Quality System (BS EN ISO 3834-3)	Buildings (similar to scope of NSSS)
EXC 3	Comprehensive Quality System (BS EN ISO 3834-2)	Bridges, Stadia etc
EXC 4	Comprehensive Quality System (BS EN ISO 3834-2) (Power Stations, Long Span Bridgeworks etc)	Special Structures

If you have any questions or concerns relating to the above information [WE CAN HELP YOU](#)

CE Mark Timescale



May 2010 Start of voluntary CE Marking

May 2011 End of co-existence period and CE Marking is mandatory in most European countries

Early 2012 European CPR becomes law. CE Marking mandatory in all European countries.

In the UK the timescale has recently been changed to 1st July 2014.

What Does This Mean to You?

By 2014 all Structural Steel must be CE Marked. All companies that manufacture or supply structural steel will need to have the following in place.

Purchasing systems will need to change to only buy CE Marked sections, bolts and welding consumables.

A Quality Control system that is preferably compliant with BS EN ISO 9001 in line with the Euro Codes BS EN 1090-1 and BS EN 1090-2 must be in place.

A Welding Quality Management system in line with the appropriate part of BS EN ISO 3834 must be in place.

The company should either employ or have access to a Responsible Welding Coordinator in accordance with BS EN ISO 3834 to control their welding quality management system.

Once you have the above in place become certified by an approved body.

To obtain the conformity status will take some time and will not be achievable “overnight”
WE CAN HELP YOU



Useful Websites

BCSA www.steelconstruction.org

American Welding Institute www.aws.org

The Welding Institute www.twi.co.uk

International Institute Of Welding www.iiw-iis.org



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Related Standards

- BS EN ISO 3834:2005 Quality Requirements For Fusion Welding Of Metallic Materials.
- Part 1: Criteria For The Selection Of The Appropriate Level Of Quality Requirements.
- Part 2: Comprehensive Quality Requirements.
- Part 3: Standard Quality Requirements.
- Part 4: Elementary Quality Requirements.
- ISO 9001:2008 Quality Management Systems/Requirements
- BS EN 1090-1:2009 Execution Of Steel Structures And Aluminium Structures.
- Part 1:Requirements For Conformity Assessment Of Structural Components.
- BS EN ISO 14731:2006 Welding Co-ordination Tasks And Responsibilities



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Welding Consultancy

We are able to provide the following services to your company:

- Nominated CE Marking Responsible Welding Coordinator.
- European and International Welding Engineer Availability.
- General Welding Consultancy And Auditing Capabilities.
- ISO 3834 Compliance Assessments.



Provide Weld Procedures In Accordance with any American,European or International Standards Including [API 1104](#) [AWS D1.1](#) [ASME IX](#) [ANSI B31.1](#) [ANSI B31.3](#) [BNFL Spec,Tech.A.0339_1](#) [BS 1140](#) [BS 4515](#) [BS EN ISO 14555](#) [BS EN ISO 15614-1](#) [DNV OS F101](#)

Provide Welder Approvals In Accordance with any American,European or International Standards Including [API 1104](#) [AWS D1.1](#) [ASME IX](#) [ANSI B31.1](#) [ANSI B31.3](#) [BNFL Spec.Tech.A.0339_1](#) [BS 4515](#) [BS 4872](#) [BS EN 287-1](#) [BS EN 1418](#) [ISO 14732](#) [DNV OS F101](#)

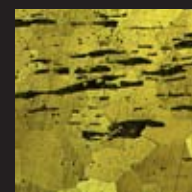
- Welder Practical Training And Welding Theory Seminars.
- Advise on The Pressure Equipment Directive (PED).
- Mechanical and Corrosion Testing.
- Metallurgical And Failure Analysis.
- Document Reviews.
- Provide PQR Documentation.
- Calibration Of All Welding Equipment.
- Advise On Heat Treatment Specifications
- Material Selection And Performance.
- Advise On Material Specifications.
- Mentoring And Technical Support.
- NAMAS Approved Test House Facility



Macro Sample



Macro Sample



Micro Samples



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Non-Destructive Testing and Inspection



- **Ultrasonic Inspection Components:**-Weldments -Unmachined/ Machined Forgings (Plates Bar & Billets) - Pipe & Tube -Thickness Surveys - Castings.
- **Magnetic Particle Inspection:**-Weldments -Unmachined/ Machined Forgings and Castings.
- **Dye Penetrant Inspection:**-Weldments -Unmachined/Machined Forgings and Castings.
- **Eddy Current Inspection:**-Weldments - Unmachined/Machined Forgings and Castings.
- **Visual Welding Inspection:**- BS EN 970:1997 ASME V & ASME B31.3.
- **Painting,Coating and Wrapping Inspection:**-Protective Systems.
- **Hardness Testing Surveys:**-Most Alloys.
- **Ferrite Testing Surveys:**-Stainless & Duplex Alloys.
- **Alloy Verification and Positive Material Identification:**- Most Alloys.
- **X and Gamma Radiography:**-Weldments / Forgings / Castings.



Portable Appliance Testing



- Test And Inspect Power Tools And Equipments For Site,Workshop Or Office.
- Label And Supply Documentation Of Test Status For Each Piece Of Equipment.
- Repair, Sell Or Hire Pat Testing Equipment.
- Train Personnel On One Of Our Bi-Weekly Training Courses. Pat Competency Certificates Available.
- Sell Any Pat Accessory Including Labels And Log Pads.
- Calibrate Any Electrical Equipment.



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