



CERTIFICATION SCHEME FOR WELDING AND INSPECTION PERSONNEL

DOCUMENT No. CSWIP-WI-6-92 – SUP01

REFERENCE LITERATURE LIST

Supplement to:

Requirements for the Certification of Visual Welding Inspectors, Welding Inspectors and Senior Welding Inspectors (fusion welding) – Doc CSWIP-WI-6-92

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Issued under the authority of the Governing Board for Certification

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REFERENCE LITERATURE: WELDING INSPECTORS

ISO5817) BSEN25817)	Arc Welded Joints in steel, guidance on quality levels for imperfections
BS499:	Welding terms and symbols. Part 1: Glossary for welding, brazing and thermal cutting.
BS EN 22553: drawings	Welded, brazed and soldered joints - symbolic representation on drawings
BS EN499:	Welding Consumables – covered electrodes for manual metal arc welding of non-alloy and fine grain steels.
BS5135:	Process of arc welding of carbon and carbon manganese steels.
BS EN970: examination.	Non-destructive examination of fusion welds – visual examination.
BS EN 287:	Approval testing of welders for fusion welding Part 1: Steels.
BS EN 288:	Specification and approval of welding procedures for metallic materials. Part 1: General rules for fusion welding . Part 2 : Welding procedure specification for arc welding. Part 3 : Welding procedure tests for the arc welding of steels.

REFERENCE LITERATURE RELEVANT TO THE ENDORSEMENT FOR ALUMINIUM AND ITS ALLOYS

Materials

BS:1470	Plate, Sheet and Strip for General Engineering Use
BS:1475	Wire for Welding
BS:4300	Aluminium and Alloys for Specialised Use
BS:1161	Sections for Structural Purposes

Welding Consumables

BS:2901 Pt 4	Welding Rods and Filler Wires for Aluminium
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Design

BS:5500	Annex AA: Design and Construction of Unfired Pressure Vessels
BS:8118:	Structural Use of Aluminium
CP118:	Code of Practice of the Structural Use of Aluminium
BS:7777:Pts 1-4	Storage Tanks

Welding

BS:3019	TIG Welding
BS:3571	MIG Welding
BS EN:1668	Welding Consumables – Rod Wires and Deposits for Tungsten Inert Gas Welding of Non Alloy and Fine Grain Steels – Classification
BS EN:757	Welding Consumables – Covered Electrodes for Manual Metal Arc Welding of High Strength Steels – Classification
BS EN:758	Welding Consumables – Tubular Cored Electrodes for Metal Arc Welding with and without a Gas Shield of Non Alloy and Fine Grain Steels - Classification
BSEN:288:Pt4	Welding Procedure Tests for Arc Welding
BSEN:287:Pt2	Approval Testing of Welders for Fusion Welding
BS:3451	Test Methods for Welds

AMERICAN CODES

AWS1/AWS D.12-90	Structural
ANS1/AWS D10.7-86	Recommended Practices for Gas Shielded Arc Welding of Aluminium and Alloy Pipe
ANSI/AWS A5.3	Welding Electrodes
ANSI/AWS A5:10	Rods, Wires and Electrodes
ASME Boiler and PV Code Section II part B – Non-Ferrous Materials	
ASME Boiler and PV Code Section VIII Part UNF Pressure Vessels Constructed of Non-Ferrous Materials	

REFERENCE LITERATURE RELEVANT TO THE ENDORSEMENT FOR REACTIVE METALS

Titanium

ASME VIII	Pressure Vessels Part One
ASME IX	Procedure and Welder Approvals

REFERENCE LITERATURE RELEVANT TO THE ENDORSEMENT FOR STAINLESS STEELS

BS 2901 Pt 2	Filler Rods and Wires for Gas Shielded Arc Welding – Specification for Stainless Steels
Pt 4	Filler Rods and Wires for Gas Shielded Arc Welding – Specification for Aluminium and Aluminium Alloys
Pt 5	Filler Rods and Wires for Gas Shielded Arc Welding – Specification for Nickel and Nickel Alloys
BS 7475	Fusion welding of austenitic stainless steels
BS EN 1600:	Welding Consumables – Covered Electrodes for Manual Metal Arc Welding of Stainless and Heat Resisting Steels – Classification

REFERENCE LITERATURE RELEVANT TO THE ENDORSEMENT FOR NICKEL ALLOYS

BS 2901 Pt 5	Specification for Nickel and Nickel Alloys
BS 3071	Specification for Nickel-Copper Alloy Castings
BS 3072	Specification for Nickel and Nickel Alloys – sheet and plate
BS EN ISO 9609 Pt 4	Approval Testing of Welders for Fusion Welding
ANSI/AWS A5.11	Specification for Nickel and Nickel-Alloys Welding Electrodes for Shielded Arc Welding
ANSI/AWS A5.14	Specification for Nickel and Nickel-Alloy Bare Welding Electrodes and Rods

REFERENCE LITERATURE: SENIOR WELDING INSPECTORS

As above and including the following:

Formerly BS2600: Radiographic examination of fusion welded butt joints in steel and
and BS2910: Methods for radiographic examination of fusion welded circumferential butt joints in steel pipes
Superseded by

BS EN 1435: Non-destructive examination of welds: radiographic examination of welded joints

Formerly BS 3971: Specification for image quality indicators for industrial radiography (including guidance for their use)

Superseded by

BSEN462: Non-destructive testing: Image quality of radiographs, Parts 1 – 5

REFERENCE LITERATURE RELEVANT TO RADIOGRAPHIC INTERPRETATION

ISO 1106 Recommended Practice for Radiography of fusion welded joints:

- Part 1 Butt joints in steel plate up to 50mm thick.
- Part 2 Butt joints in steel plate thicker than 50mm and up to and including 200mm.
- Part 3 Fusion welded joints in steel pipes of up to 50mm thickness.

ISO 2504 Radiography of Welds and viewing conditions, utilisation of recommended Image Quality Indicators (IQI).