



BSSA

Stainless Steel Training & Education



BRITISH STAINLESS STEEL ASSOCIATION
Making the Most of Stainless Steel

Introduction

The British Stainless Steel Association is a membership based organisation with the purpose of promoting greater use of stainless steel in the UK and Ireland. Its strength lies in the breadth of its membership with companies from all sectors of the industry and all stages of the supply chain.

Originally formed as an association of stainless steel fabricators, the BSSA has steadily increased the scope of its membership and range of activities over the years. In 2000, the BSSA was reformed and a small full-time staff was established to allow its services to be developed further. At the same time the Stainless Steel Advisory Service was launched, which now operates as an integral part of the BSSA.

The BSSA has four principle areas of activity:

- Providing help and advice through the Stainless Steel Advisory Service and increasingly via our website, www.bssa.org.uk
- Training and education, including Starter Workshops, the Stainless Steel Specialist Course, in-company bespoke courses and open seminars
- Market development, e.g. sectors such as Architecture, Building and Construction, Water and Energy
- Events, including forums, seminars, conferences and social functions all of which provide the opportunity to meet colleagues from across the industry



Training & Education 'Pathway to success'

Whatever the industry, there are always new people entering and exiting, and the stainless steel industry is no different. However the BSSA recognises this need to train and educate new members into the industry to increase and strengthen the knowledge level of the stainless steel industry. With this in mind the BSSA offers different courses and seminars throughout the year at a variety of different locations. Courses include the popular 'Stainless Steel Starter Workshop' which can be used as a stepping stone to the 'Stainless Steel Specialist Course'. Other seminars such as the 'Fabrication Workshop' encourage fabricators to use stainless steel compared to other materials.



Partnerships

The BSSA is working in partnership with Metskill. Led by metals employers, Metskill manages skills training for small to medium businesses in the metals sector, enabling employers to easily access a wide range of high quality training and funding. Metals industry skills development programmes are designed, tested and monitored by employers to deliver real business level results and our industry liaison team offers expert advice on skills solutions based on direct metals industry experience. Metskill also provides an apprenticeship management service to employers throughout the UK. Membership is open to all UK metals companies, and offers exclusive benefits with discounts on all products and services.

Metskill is a not-for-profit subsidiary of Semta, the Sector Skills Council for Science, Engineering and Manufacturing Technologies.



Starter Workshops

The popular BSSA Starter Workshops give a comprehensive introduction to stainless steel and are ideal if you are new to the industry, or just looking for a refresher course on the basics.

Specialist Courses

The Stainless Steel Specialist Course was launched in 2002 with the aim of providing a recognised industry standard for knowledge of stainless steel. The course provides valuable information on all aspects of stainless steel and has already proved its worth both to individuals and their businesses.



Fabrication Workshops

Service conditions are increasingly demanding for many applications and stainless steel can often provide a cost-effective material choice. However, a good understanding of the range of stainless steels, their suitability for particular environments and how to fabricate with them is vital to ensure the ideal outcome for clients.

CPD Training

Stainless steel is growing in popularity as a material for applications in architecture, building and construction but care needs to be taken to get the best results. The BSSA is part of the RIBA CPD Providers Network and has a range of CPD approved seminar modules which cover all the important aspects of using stainless steel.



Starter Workshop – Introduction to Stainless Steel

This half-day Starter Workshop will give you a comprehensive introduction to stainless steel, whether you're new to the industry or just looking for a refresher on the basics.

Topics include grades, finishes, corrosion, mechanical properties and applications of stainless steel. The Workshop will also provide an introduction to the Stainless Steel Specialist Course, suitable for those looking to develop their knowledge further.

Starter Workshops take place at a variety of venues across the country. Bespoke in-house workshops can be arranged for companies where several candidates may want to undertake the training together.

Stainless Steel Specialist Course:

Intermediate and Full Certificate

The BSSA Stainless Steel Specialist Course is a self taught educational tool that sets an industry standard for knowledge of stainless steel. Providing comprehensive information about all aspects of stainless steel, the course not only offers a practical learning framework but is an ideal reference tool for future use.

The course is now available in various forms:

- Online (e-learning)
- Online (HTML version)
- Paper based version (available on request)

Both online versions are available via the ISSF website www.worldstainless.org. The e-learning version is interactive and easy to use and the online HTML version is very similar to the paper based version but the papers would have to be printed off. The paper based version is available from the BSSA office.

	Title of Training Modules	Intermediate Certificate	Full Certificate
1	An Introduction to Stainless steel	✓	✓
2	Stainless Steel vs Corrosion	✓	✓
3	The Mechanical Properties of Stainless Steel	✓	✓
4	The Surface Finish on Stainless Steels		✓
5	Fabricating Corrosion Resistant and Stainless Steel		
6	The Cutting of Stainless Steel		
7	The Metallurgy of Stainless Steel	✓	✓
8	The Welding & Joining of Stainless Steel		✓
9	Machining Stainless Steel		
10	Practical Considerations for Designing Stainless Steel		✓
11	Stainless Steel & Stainless Alloy Castings		
12	Forging Stainless Steel		
13	Stainless Steel Pipe and Tube		
14	Cold Forming Stainless Steel		
15	Deep Drawing Stainless Steel		
16	Stainless Steel and Stainless Steel Alloys at High Temperatures		

Fabrication Workshops

Held regularly at different locations across the UK and Ireland, the workshops provide a thorough introduction to stainless steel together with advice on good design, fabrication and workshop practice. The workshops also provide guidance on health and safety issues including welding.



Workshop objectives

- To promote good design and fabrication in stainless steel
- To assist delegates to comply with health and safety requirements
- To provide an introduction to development and support services

Benefits of attending

- Confidence in specifying, buying and fabricating stainless steel, and in using and operating stainless steel structures and equipment
- Understanding of how to avoid the pitfalls in stainless steel design and fabrication
- Access to regional technical and business support



For more information

To receive further information about Training and Education available from the BSSA contact the Association Administrator:

T: 0114 267 1260

F: 0114 266 1252

E: enquiry@bssa.org.uk

W: www.bssa.org.uk/training.php

CPD Training



The RIBA approved seminar modules are designed to assist architects, specifiers and clients in the design and specification of stainless steel for applications in building and construction. There is a choice of nine modules each focusing on different aspects of using stainless steel most effectively. The modules are presented by experts in stainless steel and can be carried out at architects' practices or via the internet.



One Stainless Steel for Architects

A general introduction to stainless steel for architects, including grades, standards and surface finishes, including the properties of stainless steel, EN 10088 specifications, modern surface finishes, environmental benefits and where to obtain further advice.

Two Designing Building Exteriors in Stainless Steel

Designed to help architects get the best out of stainless steel in the design of building exteriors, and to avoid practical problems that would give disappointing service/performance, including issues affecting material selection and long term maintenance.

Three Specifying Stainless Steel for Architectural Applications

Provides architects with practical guidance on the specification of stainless steel, including material grade, surface finish and flatness criteria, and factors influencing the cost of different specifications.

Four Optimising Design and Fabrication of Stainless Steel Components

Introduces the exciting range of modern stainless steel surface finishes available to the architect, and provides guidance on selection and specification, factors affecting service performance, and availability.

Five Selecting and Specifying Stainless Steel Surface Finishes

Provides architects with guidance on maintaining the visual performance of stainless steels in architectural use, including choice of grade and finish, erection, cleaning and restoration and where to go for specialist advice.

Six Cleaning and Restoring Stainless Steels in Architectural Use

Provides architects with guidance on maintaining the visual performance of stainless steels in architectural use, including choice of grade and finish, erection, cleaning and restoration and where to go for specialist advice.

Seven The Structural Design of Stainless Steel

Provides architects and structural engineers with guidance on the use of stainless steels in swimming pool applications; outlines the principles of good design and material selection, and how to avoid pitfalls, such as stress corrosion cracking.

Eight Stainless Steel in Swimming Pools

Provides architects and structural engineers with guidance on the use of stainless steels in swimming pool applications; outlines the principles of good design and material selection, and how to avoid pitfalls, such as stress corrosion cracking.

Nine Stainless Steel Reinforcement for Concrete Structures

Provides architects and engineers guidelines for the design of durable and cost effective reinforced concrete structures using stainless steel and an update on current stainless steel rebar standards, material grades, size range and properties.



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