sassda®
southern africa stainless steel development association

EDUCATION & TRAINING

TRAINING PROGRAMME

Stainless steel training for every role

From the front desk to the shop floor: courses that build real knowledge of stainless steel across your whole organisation.



01	02	03	04	05
Introduction to Stainless Steel	Fundamentals of Stainless Steel	Advanced Stainless Steel	Selling of Stainless Steel	Multi-Module Shopfloor Courses

ABOUT OUR TRAINING

Training, skills upgrading and awareness

Education, training and skills upgrading are three of the most important factors in the successful growth of an industry. To compete locally and in world markets, an industry needs people at every level who are educated in every aspect of their job.

Sassda has developed a comprehensive education, skills upgrading and awareness programme to make this possible, with courses for administrators, sales teams, engineers and shop floor staff, delivered online, in workshops or at your premises.

YOUR LEARNING PATHWAY

STEP 1
Introduction
Self-paced e-learning

STEP 2
Fundamentals
Live online, 3 sessions

STEP 3
Advanced
2 or 3 days, CPD points

Selling of Stainless Steel
Half-day workshop for people involved in selling stainless steel

Shopfloor Courses
In-house modules for warehouse, workshop and QA staff

COURSES AT A GLANCE

COURSE	FORMAT	DURATION	CPD
Introduction	Online e-learning	Self-paced	–
Fundamentals	Live online	3 weekly sessions	1 point
Advanced	Online + lab visit	2 or 3 days	2–3 points
Selling	Workshop	½ day	–
Shopfloor	In-house	Per session, max 15	–

Introduction to Stainless Steel

A self-paced, convenient and easily accessible e-learning programme offering a basic understanding of stainless steel.



WHO SHOULD ATTEND

All newcomers and non-technical personnel who deal directly or indirectly with customers, or who come into contact with stainless steel: administrators and buyers, procurement, marketing, sales, warehouse staff and more.

AFTER THE COURSE, LEARNERS WILL

- Know the history of stainless steel
- Know who Sassda is and what its role is
- Have a basic understanding of what stainless steel is, the different grades and their uses
- Understand why stainless steel is specified (benefits)
- Understand the basic properties of stainless steel
- Know how stainless steel is produced
- Know how to handle and maintain stainless steel

FORMAT
Online e-learning

PACE
Self-paced

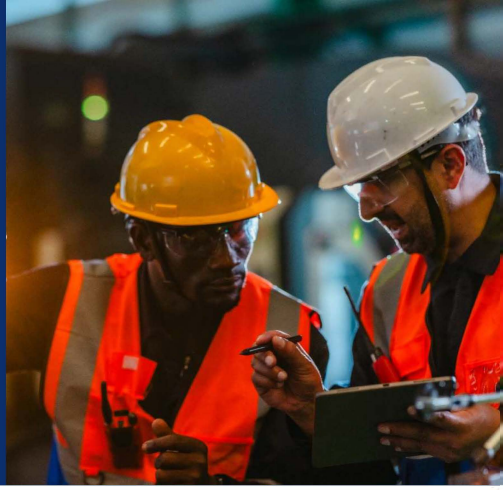
NEXT STEP
Fundamentals of Stainless Steel

SASSDA MEMBERS
Free training depending on your membership tier, plus 25% off additional training.

COURSE 02 · FUNDAMENTALS

Fundamentals of Stainless Steel

An intermediate online course for people with a basic understanding of stainless steel.



WHO SHOULD ATTEND

Newcomers to the industry, and anyone who needs more in-depth knowledge of stainless steel: salespersons, supervisors, managers, specifiers and end users.

THREE SESSIONS, SIX MODULES

S1	**Modules 1 & 2** · History and basics of stainless steel
S2	**Modules 3 & 6** · Corrosion and handling
S3	**Modules 4 & 5** · Mechanical and physical properties, manufacturing

FORMAT
Live online, 3 weekly sessions

CERTIFICATE
After an online or written assessment

CPD
1 point · SAIMechE

SASSDA MEMBERS
Free training depending on your membership tier, plus 25% off additional training.

AFTER THE COURSE, LEARNERS WILL

- Know about Sassda and the role it plays in the industry
- Understand what makes stainless steel unique
- Understand the basic advantages and classifications
- Identify the main classifications, basic grades, composition, properties and uses
- Understand the principles explained in the “Spider Web”
- Identify the top 20 alloys
- Know what corrosion is, its different types, how each affects stainless steel and how to avoid it
- Know the difference between type, form and finish
- Be familiar with South Africa's primary producer's manufacturing process
- Understand the difference between flat and long products, castings, and tube and pipe
- Identify different types of stainless steel contamination
- Understand how to restore the passive layer
- Learn how to clean, store and maintain stainless steel

COURSE 03 · ADVANCED

Advanced Stainless Steel

An intensive course for people who need an advanced understanding of stainless steel and have completed the Fundamentals course.



WHO SHOULD ATTEND

Anyone who needs in-depth knowledge of stainless steel: salespersons, sales managers, specifiers, engineers, workshop managers and end users.

CHOOSE YOUR FORMAT

2 days
Online course

3 days
2 days online, plus a visit to the SAIW Materials Testing Laboratory

AFTER THE COURSE, LEARNERS WILL

- Understand the thermodynamics and kinetics of the manufacturing process
- Understand the metallurgy of stainless steel, including phase and transformation diagrams
- Understand the types of corrosion, with emphasis on gaseous and dry corrosion through case studies
- Understand mechanical properties, with emphasis on fatigue, creep and work hardening
- Know about stainless steel forming and machining
- Predict weld microstructure

PREREQUISITE
Fundamentals of Stainless Steel

CPD · SAIMECHE
2 points (2 days)
3 points (3 days)

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COURSE 04 · SELLING

Selling of Stainless Steel

A half-day workshop for people involved in selling stainless steel.



OVERVIEW

This is not a commercial course. It gives students a solid understanding of the metallurgy of stainless steel, the different grades and their applications, so they can offer customers sound advice.

The Life Cycle Costing section shows students how to demonstrate the sustainability and cost-effectiveness of the material. The course also covers the sales process and sales strategies for stainless steel.

FORMAT
½ - day workshop

ON COMPLETION
Certificate of attendance

SASSDA MEMBERS
Free training depending on your membership tier, plus 25% off additional training.

FIVE SESSIONS

SESSION 1

A background to a simply brilliant material

A short history · What stainless steel is and what is in it · What makes it different · Where it is used

SESSION 2

Types and grades of stainless steel

The family tree · The different grades · Their properties · Applications for each grade

SESSION 3

Selecting the correct grade for atmospheric conditions

The influence of environment, salt, weather patterns, design and maintenance

SESSION 4

LCC: the most powerful sales tool for stainless steel

The theory · The calculation · The Sassda toolbox · Case studies

SESSION 5

The sales process and stainless steel

Everything is a process · Stainless sales principles · Stainless strategies · Allow stainless to sell itself

Give customers sound advice

And show them why stainless steel pays for itself.

COURSE 05 · SHOPFLOOR · IN-HOUSE

Multi-Module Shopfloor Courses

Practical training held at your premises. Start with the mandatory introduction, then choose the modules that fit your operation.



WHO SHOULD ATTEND

Anyone handling or working with stainless steel on the shop floor: warehouse staff, forklift drivers, packers, operators, artisans, welders and workshop assistants, plus Quality Assurance staff.

Sassda brings the training to you, so your team learns best practice in the place they apply it.

VENUE
At your company premises

GROUP SIZE
Up to 15 learners

BUILD YOUR COURSE

MODULE 1 · MANDATORY
Introduction to Stainless Steel
A brief overview of the industry, the history of stainless steel, the different grades and the benefits of using them.

MODULE 2
Handling Stainless Steel in the Warehouse
Best practice in handling stainless steel from delivery and warehousing through to dispatch.

MODULE 3
Fabrication with Stainless Steel
Best practice in the workshop: preventing mechanical damage and contamination, and why cleaning, pickling and passivation matter.

MODULE 4
Traceability when Working with Stainless Steel
For QA, workshop and warehouse staff: what traceability is, its benefits, its key components and best practice.

MODULE 5
Pickling and Passivation of Stainless Steel Surfaces
Using chemical cleaning to treat weld defects, contamination and heat scale, and to restore the passive layer after fabrication.

MODULE 6
Custom Modules
Available on request, built around your operation.

MEMBER TRAINING BENEFITS

Sassda members train for less

Free

training, depending on your membership tier

25% off

all additional training, in line with your tier benefits

Contact us to find out what your membership package includes.

CPD POINTS

Our Fundamentals and Advanced courses earn Continuing Professional Development points, awarded by SAIMechE.

Fundamentals	**1 point**
Advanced (2 days)	**2 points**
Advanced (3 days)	**3 points**

HOW TO BOOK

Non-members
Book online at sassda.co.za/education and pay securely through PayFast, or request a quote

Sassda members
Use the member booking form on each course page, or contact Mankabe directly

Shopfloor (in-house)
Contact Mankabe to plan modules and dates

TRAINING ENQUIRIES

Mankabe More
Training Manager

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Gauteng · 011 883 0119
Western Cape · 082 778 8882
sassda.co.za/education

sassda®
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