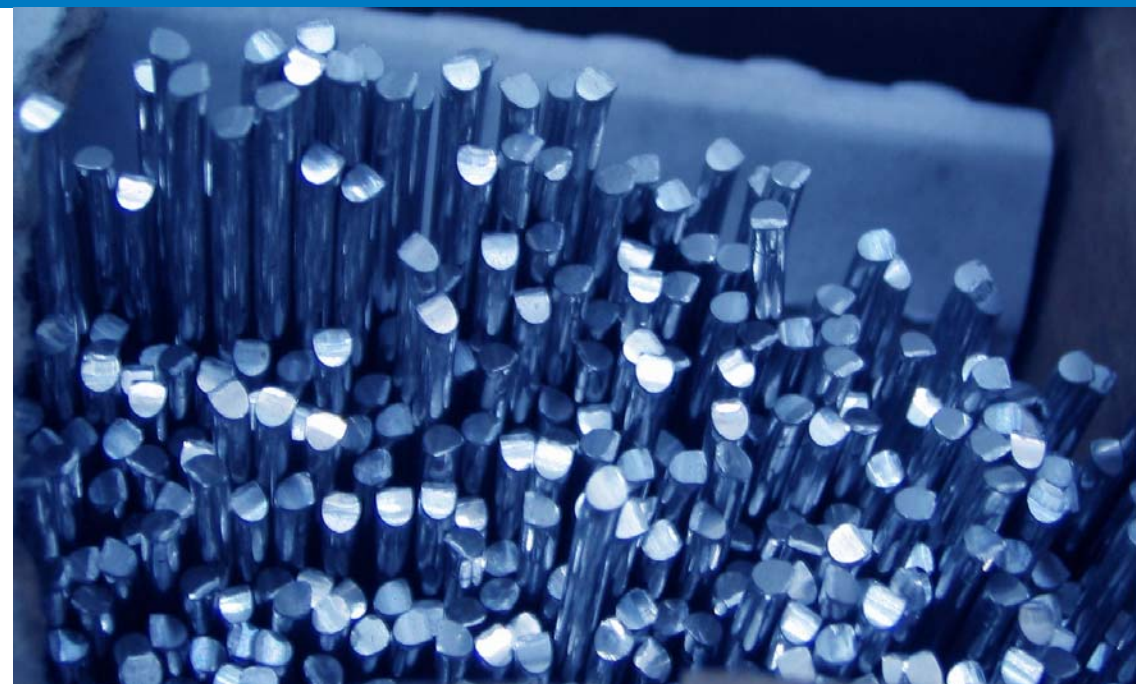


<u>Course</u>	<u>Duration</u>	<u>Cost</u>
Basics of Structural Engineering	1 Day	£300 + VAT
Carbon and Alloy Steel Metallurgy & Processing	2 Days	£600 + VAT
Combating Metallic Corrosion	2 Days	£600 + VAT
Heat Treatment for Heat Treatment Professionals	2 Days	£600 + VAT
Introduction to Corrosion	1 Day	£300 + VAT
Introduction to Fatigue	1 Day	£300 + VAT
Introduction to Heat Treatment	1 Day	£300 + VAT
Introduction to Hot/Warm Forging (Optional 2nd Day at £300 + VAT)	1 Day	£300 + VAT
Introduction to Non-Destructive Testing (NDT)	1 Day	£300 + VAT
Introduction to the Fracture Mechanics Approach to Fatigue Design	1 Day	£300 + VAT
Introduction to the Strain Life Approach to Fatigue Design	1 Day	£300 + VAT
Mechanical Testing of Metals (Optional 2nd Day at £300 + VAT)	1 Day	£300 + VAT
*Metallurgical Principles of Casting	1 Day	£300 + VAT
*Metallurgy for Absolute Beginners	1/2 Day	£195 + VAT
Metallurgy for Non Metallurgists	2 Day	£600 + VAT
Metallurgy of Special Steels, Nickel Based Superalloys and Titanium Alloys for Gas Turbine Applications	1 Day	£300 + VAT
Management Development Programme (for out of region clients £900 + VAT for SMF Yorkshire and Humber based clients)	6 Days	£1600 + VAT
Nickel Metallurgy	1 Day	£375 + VAT
*Quality Assurance	1 Day	£300 + VAT
Stainless Steels; Manufacture, Metallurgy & Applications	1 Day	£300 + VAT
Titanium Metallurgy	1 Day	£375 + VAT
Welding of Steel	1 Day	£300 + VAT



TECHNICAL TRAINING COURSES

Metallurgy For Non-Metallurgists 2 Day Course

For further information email skills@namtec.co.uk



* not yet submitted for IOM3 approval

COURSE DETAILS

This two day course is designed to give attendees a basic understanding of metallurgy, and to appreciate the issues involved in the production of metals and alloys. The emphasis is on ferrous metallurgy. The presenters will be pleased to answer any questions not addressed in the talks.

Who should attend

Personnel involved in the production, processing, fabricating, utilising and selling of metals, although the emphasis will be on steel. They may be new or experienced personnel from technical or non-technical backgrounds, and from a variety of business functions.

Speakers

Course Manager: Ian Martin BSc Hons Met, MIMMM CEng.
Ian Martin has been working in Research & Development for 30 years, specialising in structure property relationships and the effect of processing on mechanical properties in a variety of steels. He is currently employed by Corus RD&T at Swinden Technology Centre.

Venue

NAMTEC is located in Swinden House, conveniently located close to both the M1 and M18. See www.namtec.co.uk for directions.

08.45-09.00hrs Registration. 17.00hrs Finish

- What is a Metal?
- Introduction to Steel
- Introduction to Steel Making and Continuous Casting:
 - Basic Oxygen Steelmaking (BOS),
 - Electric Arc Furnace (EAF)
 - Secondary Steelmaking and Continuous Casting
- Basic Metallurgy
- Effects of Alloying Elements on Steel
- Standards - Explained
- Introduction to Nickel, Titanium, Copper, Aluminium and their alloys

08.45-09.00hrs Registration. 17.00hrs Finish

- Mechanical Testing & Metallography - generating the information given in the standards and on the test certificates
- Tour and Demonstrations in the Corus RD&T Mechanical Testing & Optical Metallography Laboratories
- Heat Treatment
- Forming of Metals
- Welding & Joinery

The enrolment fee is £600 + VAT for this two day course. Fees must be paid in advance of the course.

To **register your interest** in Metallurgy for Non-Metallurgists, please complete the following and return to:
NAMTEC, Swinden House, Moorgate Road, Rotherham S60 3AR or fax to 01709 724999.

Alternatively, you can enrol online at www.namtec.co.uk

Name:

Job Title:

Company:

Address:

Telephone:

Email Address:

For further information email skills@namtec.co.uk