

Two Day Course

General Metallurgy | Intermediate

Metallurgy for the Engineer

A two day overview of the principles of metallurgy and how to apply these in an engineering context



Course Aims

The aim of the course is to provide a sound understanding of the principles of metallurgy and how to apply these in an engineering context.

Sharing the first day from our popular Metallurgy for Non-Metallurgists course, the second day takes a look at the key principles required for specific engineering disciplines together with an overview of the industry.

Who Should Attend

The course is aimed at professionals with a background in a range of complementary engineering disciplines such as mechanical, aerospace, structural, design, chemical, civil and offshore.

What delegates say about our courses...

“ Presenter was very, very good and his knowledge level was fantastic ”

Alex Thompson
UK Steel

“ The presenter was very enthusiastic and used lots of visible and practical examples ”

Marcus Gouera
Surface technologies

Contact Us

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Metallurgy for the Engineer

Learning Outcomes

- Understand the principles of metallurgy and how to apply these in an engineering context
- Explain the selection & tailoring of alloys to suit a range of end-user applications
- Understand all aspects of the production, processing & finishing of metal products
- Understand the structure of the metals industry and the role of the metallurgist

Course Content

- Basic metallurgy
- Introduction to steel production
- Effects of alloying elements on steel
- Introduction to Nickel, Titanium, Copper, Aluminium & their alloys
- Mechanical testing, NDT & metallography
- Industrial shaping of metals
- Mechanical deformation and recovery
- Heat treatment
- Metal and Alloy Selection
- Failure of metals
- Quality Assurance
- The Metallurgist & the metals industry

NAMTEC course levels

Introductory

A variety of interesting and informative courses, aimed towards employees working in technical organisations, including those in non-technical roles.

Courses are designed to introduce delegates to the basics, with the main objective of improving general knowledge of the industry they work in.

Intermediate

Open to delegates from a wide range of technical disciplines with sound technical knowledge, our intermediate courses equip delegates with a greater understanding and appreciation of the subject area.

Courses suit a variety of professionals including; engineers, researchers, designers and consultants.

Advanced

Delivered by experts with a wealth of practical experience, our advanced courses offer specialised, in-depth training and information.

Courses are ideal for candidates from a technical background, with experience in manufacturing and an appreciation of metallurgy.

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