

Basic Metallurgy and Welding

Three multimedia courses on one CD for unlimited training

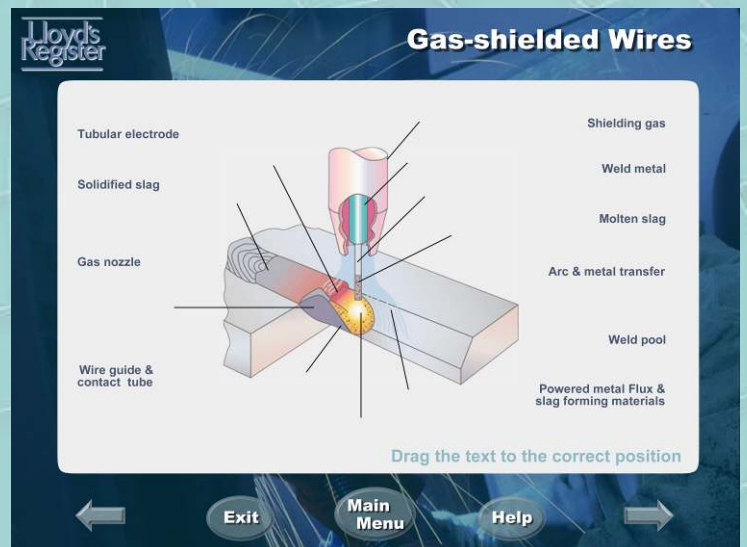


Benefits in brief

- understand the basics of metallurgy and welding
- introduction of welding processes and consumables currently used in industry
- recognition of the problems of weld imperfections, their causes and prevention in the welding of carbon manganese steels
- interactive multimedia training courses with feedback ensures student understanding
- developed with Lloyd's Register of Shipping to train their own surveyors worldwide

Fully interactive multimedia training courses covering:

- **An Introduction to Metallurgy**
General metallurgical principles such as hardness, strength, the effect of alloying, characteristics of hot and cold working and the effect of heat treatment
- **Welding Processes**
An introduction to the main technologies and consumables currently used in industry. Includes sections on Manual Metal Arc (MMA), Submerged Arc Welding (SAW), Metal Inert/Active Gas (MIG/MAG), electroslag and electrogas welding
- **Welding of Carbon Manganese Steels**
The welding sequence of this operation is examined in terms of the weld metal, heat affected zone (HAZ), distortion effects and post weld heat treatment (PWHT). Weld properties such as strength, ductility and hardness are discussed and the student is shown how to recognise weld imperfections, their causes and how to prevent them



Complex issues presented in a simple manner

Complex issues are presented simply by using animation, audio, photographs, graphics and text – each carefully chosen as the best way of illustrating a particular point.

Students work at their own pace

Users can focus on areas relevant to their job. No need to waste time on topics of no use to the company or individual.

Award winner

Basic Metallurgy and Welding won the International Institute of Welding (IIW) André Leroy prize for the *Best Multimedia Product*.

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