tdr
TRAINING & APPRENTICESHIPS

Skills Development Programme

Metal Active Gas Welding (MAG)

TDR Training are a leading training provider in the region, offering bespoke skills development programmes to enhance, upskill and retrain to meet future business demands.

tdr TRAINING & APPRENTICESHIPS

NORTH EAST WORKFORCE SKILLS PROGRAMME

European Union
European Social Fund

University of Sunderland

Overview

Metal Active Gas (MAG) welding is a process that uses heat created from a DC electric arc between a consumable metal electrode and a workpiece which melt together to create a weld pool that fuses to form a join. Active gas mixtures have been developed primarily for welding steels. Typical shielding gases are mixtures of argon, carbon dioxide and oxygen .

Training & Content

Duration 4 Days

Advantages... ● Fast/Efficient - High deposition rate can result in reduced costs. ● Ease of use - Relatively easy to produce good quality welds after initial training. ● Weld quality - Capable of producing good quality, high strength welds on a variety of material forms and thicknesses

Introduction to MAG welding
- Health and Safety
- Hazard Identification
- PPE requirements

Machine Setup/Shutdown
- Power connection
- Earthing arrangements
- Machine controls/settings
- Safely Shutdown machine

Welding
- Material preparation
- Wire selection/set up
- Correct welding technique
- Tack welding
- Corner weld, Butt weld, T-fillet weld, Fillet overlap weld

Troubleshooting
- Fault finding
- Welding defects

Practical Competence Test
- Practical test to confirm learning

Certification

- TDR Certificate of competence upon completion of training

TDR Training
Q1, Quorum Business Park, Newcastle upon Tyne NE12 8EX.
Tel: 0191 491 1505 Email: skillsdevelopment@tdrtraining.co.uk

Follow us

#WeAreTDR

Ofsted Good Provider