



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.

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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 5 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

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