

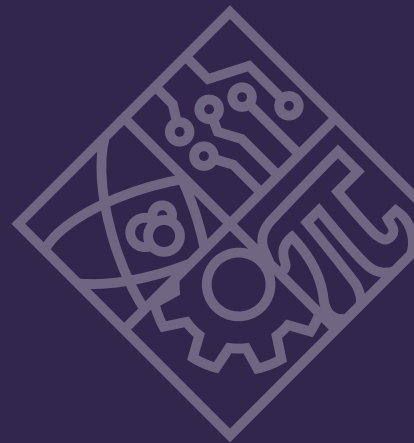


TRAINING & APPRENTICESHIPS

# Skills Development Programme



## Manual Metal Arc Welding (MMA)



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

Manual metal arc welding (MMA or MMAW), also known as shielded metal arc welding (SMAW), flux shielded arc welding or stick welding, is a process where the arc is struck between an electrode flux coated metal rod and the work piece. Both the rod and the surface of the work piece melt to create a weld. It is a versatile process that can be used on a variety of materials and material thicknesses.



## Training & Content

Duration 5 Days

Advantages... ● Flexible - Can be used to join a variety of materials. ● Cost - Relatively low start-up cost, requiring less equipment than other welding methods ● Portable - Equipment is light and requires no shielding gas.

### Introduction to MMA welding

- Health and Safety
- Hazard identification
- PPE requirements

### Machine Setup/Shutdown

- Power connection
- Earthing arrangements
- Machine controls/settings
- Safely shutdown machine

### Welding

- Material preparation
- Electrode selection
- Correct welding technique
- Tack welding
- Corner 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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