



TRAINING & APPRENTICESHIPS

# Skills Development Programme



## Tungsten Inert Gas Welding (TIG)



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

In the Tungsten Inert Gas Welding (TIG) welding process the arc is formed between a tungsten electrode and the workpiece in an inert atmosphere of argon or helium. The small intense arc provided by the electrode is ideal for high quality and precision welding. When filler metal is required, it must be added separately to the weld pool.



## Training & Content

Duration 5 Days

**Advantages...**

- Weld quality - Capable of producing high quality, accurate welds on a variety of material forms and thicknesses
- Clean - Very little fume or spatter produce

### Introduction to TIG welding

- Health and Safety
- Hazard identification
- PPE requirements

### Machine Setup/Shutdown

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

### Welding

- Material preparation
- Tungsten electrode selection/preparation
- Correct welding technique
- Corner weld, Butt 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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