

# Practical TIG (GTAW) Welding Training

*If you can't identify the hazards you can't assess the risks*

This 1½ day Instructor-led practical based workshop for up to 8 delegates is designed for all personnel engaged in or supervising TIG (GTAW) welding

## Benefits

- Training by experienced staff from the UK's largest provider of industrial, speciality and medical gas safety training
- Practical sessions provide staff with relevant standard operating procedures
- Practical fault finding
- Safer, better informed operators. Reduced risk of personal injury or plant damage
- Increased operator skill levels, reduced reject rates
- Increased production efficiency, reduced downtime
- Safety content assists in the completion of risk assessments
- Cost effective on-site training
- Provides awareness of current Legislation, Codes of Practice and Guidance Notes

*"I have spoken to the fitters who attended the Practical TIG workshop and can honestly say they all thoroughly enjoyed the training, which was of great benefit and improved their skills level. The training was of a high standard and relevant to what we do."*

Kevin Williams, NVQ Assessor/Training Coordinator  
Environment Agency

## Workshop overview

- Personal safety and safe use of shielding gases
- Safety in the use of the equipment
- Electrical safety
- Types of current used and its effects (AC/DC)
- The need for extraction
- Selection of the correct shielding gas
- How shielding gases work
- Types of electrodes & correct electrode selection
- Electrode sharpening technique
- Cleaning procedures
- How a TIG machine works
- Component parts of a TIG machine
- Correct set-up of a TIG machine
- Correct use of torch and filler rod angles
- Correct set-up and tacking procedures
- Rectification of faults
- Correct travel speed
- Bead on plate and fillet joints in the flat position
- Practice to reach an acceptable standard

## What you will learn

- Appreciate the importance of safe working procedures and be made fully aware of the consequences of adopting poor working practices
- Develop an awareness of the hazards associated with the welding process and how to approach risk assessments in a real world situation
- Correct welding techniques - theoretical fundamentals of the TIG process which are then reinforced during the practical sessions
- Improve skill levels - the initial practical focuses on the correct set-up of a TIG welding set and how to fault find, whilst the second session allows operators the opportunity to practice techniques;
  - correctly and safely set-up a TIG machine
  - recognise, appreciate their causes and rectify faults
  - adjust voltage and current settings to suit the work to be undertaken
  - weld in the flat condition to an acceptable standard

## Workshop price

Practical TIG (GTAW) Welding Training (1½ days)  
£1,275 for up to 4 delegates, £1,625 for up to 6 delegates,  
£1,975 for up to 8 delegates. VAT is payable at the standard rate.



Gas Safe<sup>LTD</sup>

# Additional Information

*If you can't identify the hazards you can't assess the risks*

Please note: All delegates must be supplied with, and wear, appropriate PPE during the practical sessions i.e. eye protection, overalls, safety shoes and safety gloves

## Do you have any other gas users or stores personnel who require appropriate training?

Please visit our website to see our full range of workshops

## Providing total training solutions for gas users...

- All your delegates will receive a certificate of attendance and comprehensive workshop literature for continued reference purposes in the workplace. This includes relevant Standard Operating Procedures if a practical workshop has been attended.

## e-Learning

Packages are available for those clients who need a more flexible, accessible method of training which delivers high quality affordable training without the need to gather employees together in a classroom. This method of training is ideal for single users, new starters or as refresher training.

- For full details visit [www.gas-safe-interactive.com](http://www.gas-safe-interactive.com)

## Special Requirements...

Trained by us before? Please ask about our Refresher Training

- Consultancy Services - Risk Assessments, On-site Advisory Survey, Written Schemes of Examination for piped systems, Piped System Installation, Inspection and Testing  
[www.gas-safe-pressure-systems.com](http://www.gas-safe-pressure-systems.com)
- Equipment solutions for gas users at [www.gassafegear.co.uk](http://www.gassafegear.co.uk)

Contact us...



If you know or wish to discuss your requirements;

Call one of our training advisors on **01270 758890**

Visit [www.gassafeconsultants.co.uk](http://www.gassafeconsultants.co.uk) and complete an enquiry form

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