



**OPERATOR TRAINING &
EQUIPMENT TESTING**

For the manufacturing, fabrication & maintenance industry

Introduction

Telford Groups Ltd's extensive range of welding equipment and industrial machinery allows us to offer extensive machinery training and familiarisation courses. Our training school is equipped to offer operation, maintenance and health and safety training for machinery such as welders, sawing machines, metal workers, power tools etc.

Both theory and practical based training courses can be tailored to suit the needs of a company for the operation, maintenance and safe use of for example a semi automatic band sawing machine, delegates would be trained, in safe operation, setup, maintenance and fault finding on the selected machine.

Full certification would be issued upon completion for company records. These training courses can be held at our welding school or in your workshop or on site. Our training facilities are extensive; we have a spacious teaching room with modern presentation equipment. The welding school has large welding / demonstration booth, with an extensive extraction system for welder training.

This along with our large stock of various types of welding and industrial machines allows Telford Group Ltd to provide diverse programs of training to meet the need of numerous clients and customers in a wide range of industries.

For further details call:
01952 290800 or visit our web site
www.telfordgroup.co.uk



As part of Telford Group Ltd's total support package to Industry we offer Welder training from basic start up to advanced level.

Telford Group Ltd provide welder training and approval testing either at our own welding school on Stafford Park in Telford or the clients premises providing they have suitable facilities and welding equipment.

Our qualified personnel will supply welder training & testing [coding] to include job knowledge, practical skills, training, health and safety, risk assessments, weld procedures and pre employment assessments.

Training can be specifically designed to suit you or your organisation, ensuring you or every member of your staff develops the skills to carry out welding tasks competently and to the required standard, thus satisfying both your customers and insurance company.

Welding can often be seen as a daunting process to undertake. but at Telford Group Ltd we can also offer basic welder training for people who have never even welded before. Our training staff will take them through the operation and safety aspects of the welding process and the most commonly used types of machine, then provide practical training on various types of materials or applications common

to an industry. If there is a certain type of welding or part of the process to be improved on, a training course can be tailored to suit.

When a machine is purchased and collected from our Telford depot, we will offer to assemble the machine, set it up and then provide training and tuition on the machine, operation and functions, so the machines are ready to use to its full potential.

If the client prefers that the candidates are to be trained at their premises. Telford Group's trainer would require an office or meeting room to carry out the safety at work and job knowledge sections of the course and the review sessions.

Telford Group would also require a workshop area with suitable welding machines and fume extraction, separate to the production area to carry out the practical work. Our training days are 8.30am till 4.30pm with a 1-hour lunch break. Delegates would need to bring their own personal protective clothing and their own welding shield if they have one. A standard shield will be provided if they do not have one.



Coding Welder Approval/ Qualification & Weld Procedures

Coding / Qualification & Weld Procedures to:

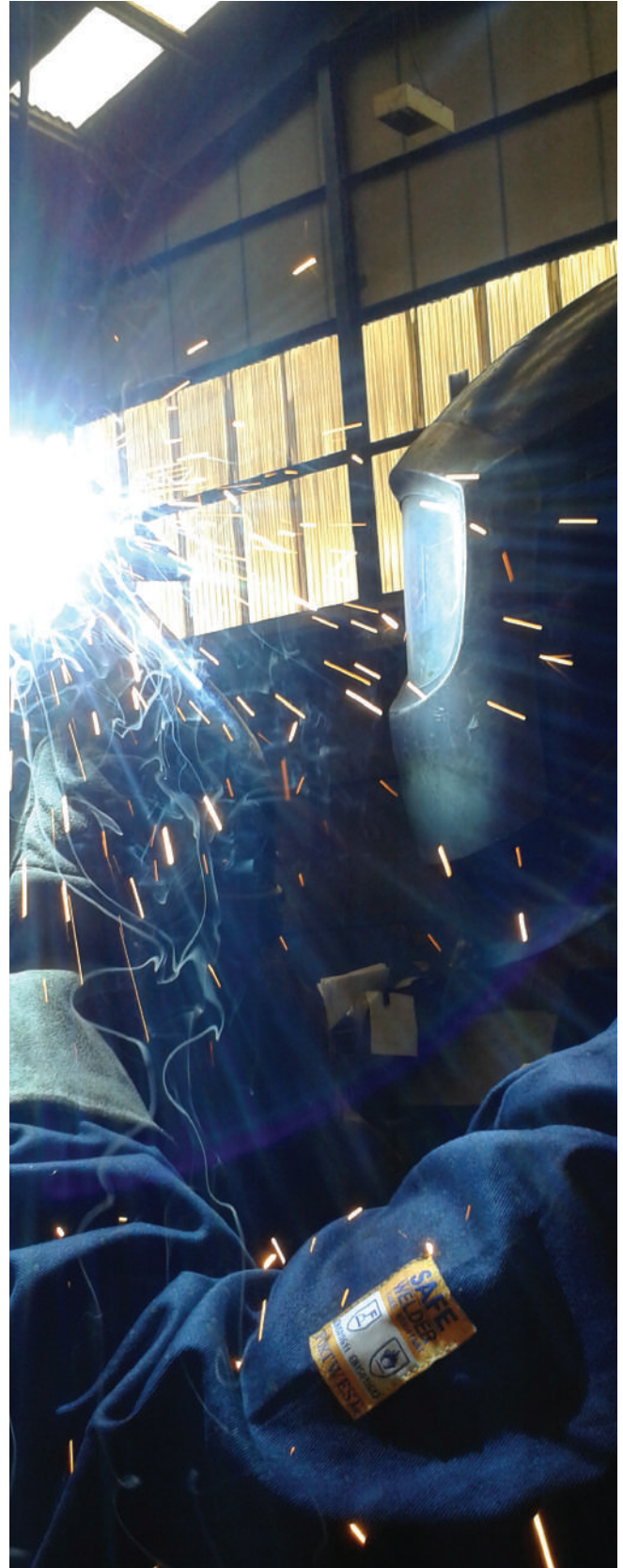
- BS EN 287-1:2004 Welder Approval
- BS EN ISO 9606 Parts 1 and 2 Welder Approval
- ASME IX
- BS 4872
- BS1140 SPOT WELDING
- BS EN ISO 15614 [to include full range of Weld Procedure approvals]
- Weld Procedure Specification written TO BS EN 15614
- BS ISO 24394:2008 Aerospace Standard

Training Courses on:

- OXY-FUEL GAS Portable cutting/Welding Equipment, Safe Use & Handling course
- The Welding Basics, MIG, TIG or MMA
- Plasma Cutting, Safe use, operation and applications.

Product and Equipment Testing:

- Annual CP7 and GN7 Industrial Gas & Equipment Inspections.
- Annual CP4 and CP6 inspections for Industrial Gas Manifold and pipeline systems.
- Testing and Servicing of Welding Fume Extraction and Local Exhaust Ventilation (LEV) Systems.
- Portable Appliance Testing (PAT) of power tools and industrial machinery.
- Welding Machine Calibration to BS 7570:2000



ISO EN 9606-1:2013 Welder Approval for Mild Steel & Stainless Steel and EN ISO 9606-2:2004 for Aluminium in MAG/MIG, TIG and MMA, plus other processes

The accepted proven level of welding competency in Europe is a ISO EN 9606 Welder Approval, often referred to as 'coded welder – Class one – etc'. The range of competency within ISO EN 9606 is extensive. For production welders and maintenance fitters we would expect a Tee Fillet Weld in the horizontal vertical position (inverted tee), in the MAG process to be achieved.

If it is the first time this type of approval is being undertaken its an advantage to carry out the training at Telford Groups Ltd's facility to take candidates away from the possible distractions of their normal working environment to one more conducive to training and to focus on the task of learning and achieving the approval standard.

Upon request Welder Approvals can be done on site.

ISO EN 9606 calls for the weld test to be the best reflection of the day to day requirements or the most commonly used in a normal production or maintenance environment, so we suggest for example for MAG Welding a 6mm single run, Tee Fillet in low carbon Steel (HRMS), welded in the PB (Horizontal Vertical) position for the welding process. Within ISO EN 9606, 'Job Knowledge' is mandatory, we include this section as a basic understanding of how the process works and the safe use of the equipment, which is increasingly required by the HSE.

On the assumption that the delegates have been welding in the processes to be tested on for some time and therefore have an existing practical skill level the course is normally a held over two days.



Achieving an ISO EN 9606 Qualification

This qualification is the current European standard required by employers for an approved welder and many manufacturers are demanding their sub contractors only employ welders with this qualification and it will be required if a company or contractor are to achieve EN 1090 certification.

The qualification is required for each welding process, those most commonly used in UK industry are MAG (Metal Active Gas), TIG (Tungsten Inert Gas) and MMA (Manual Metal Arc) and for each type of material, ie mild steel, stainless steel or for Aluminium the qualification is ISO EN 9606-2, which is in essence the same as ISO EN 9606.

The largest demand is for MIG/MAG welding but currently we are aware that there is a skill shortage of qualified TIG welders.

So to achieve a ISO EN 9606 qualification in TIG welding requires at least 2 weeks full time training for a person new to welding but it could be achieved in less time if the individual is already skilled in another welding process such as MIG and has a good aptitude to the process.

We would estimate that 5 full days or 10 half days should enable an existing skilled welder to be successful in achieving a qualification on a second process that has not been undertaken before.

We are able to offer this training and the test fee by our third party examiner for a fixed cost for individuals when included into an existing course, or organisation wanting to book 5 or more delegates will be offered a specific quotation.

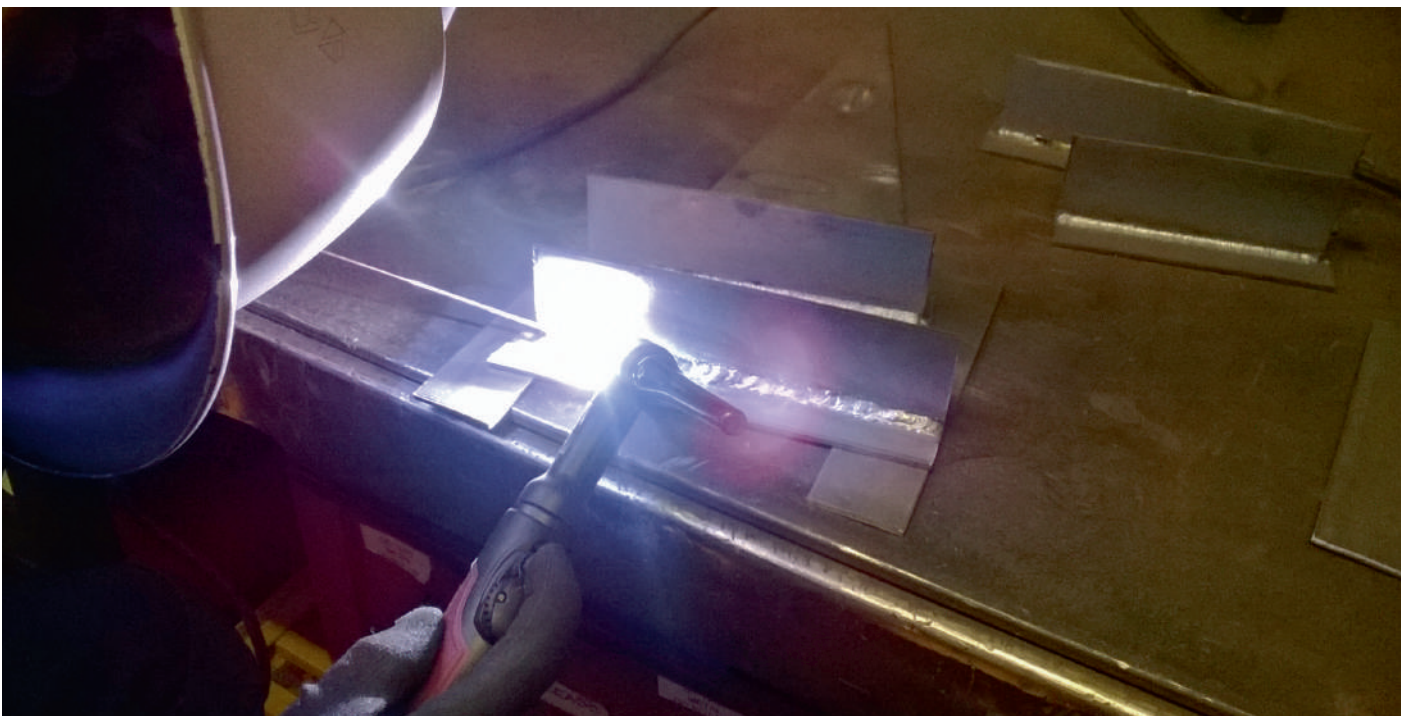
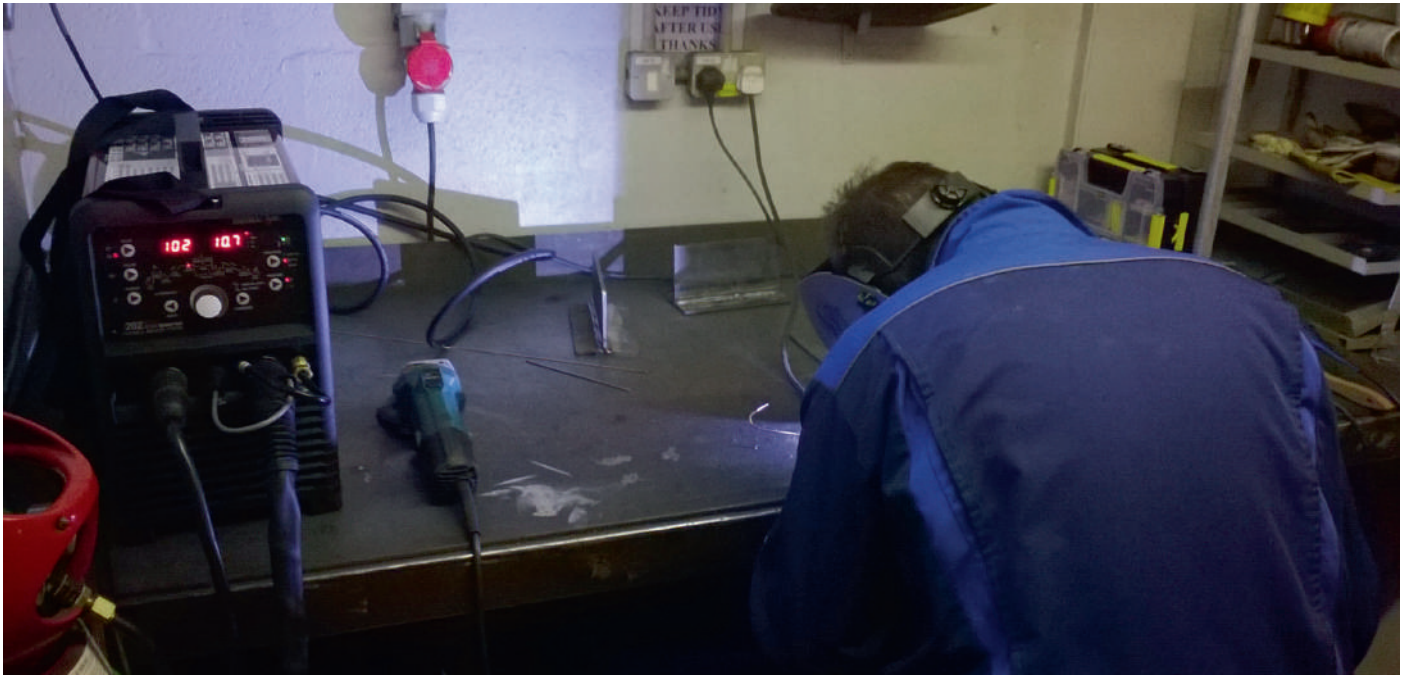
It must be appreciated the qualification cannot be guaranteed, we will constantly assess the delegates progress and if at any point the instructor is not confident that the delegate is going to be successful they will discuss the issue with the delegate and their employer/sponsor to decide if they should continue to the test. On the final days training trial tests are performed and if the delegate cannot achieve a standard appropriate for the test we would not put the delegate forward to the test to avoid the potential loss of cost for the test.



BS ISO 24394:2008 Aerospace Standard

This international standard with mandatory Job Knowledge will be adopted by all those involved in aerospace welding applications. It will serve as a common denominator, eventually replacing many varied Weld Procedure and Welder Approval tests used by differing countries and companies.

Typically a training course for this standard is run very similar to that of a ISO EN 9606 Welder Approval course.

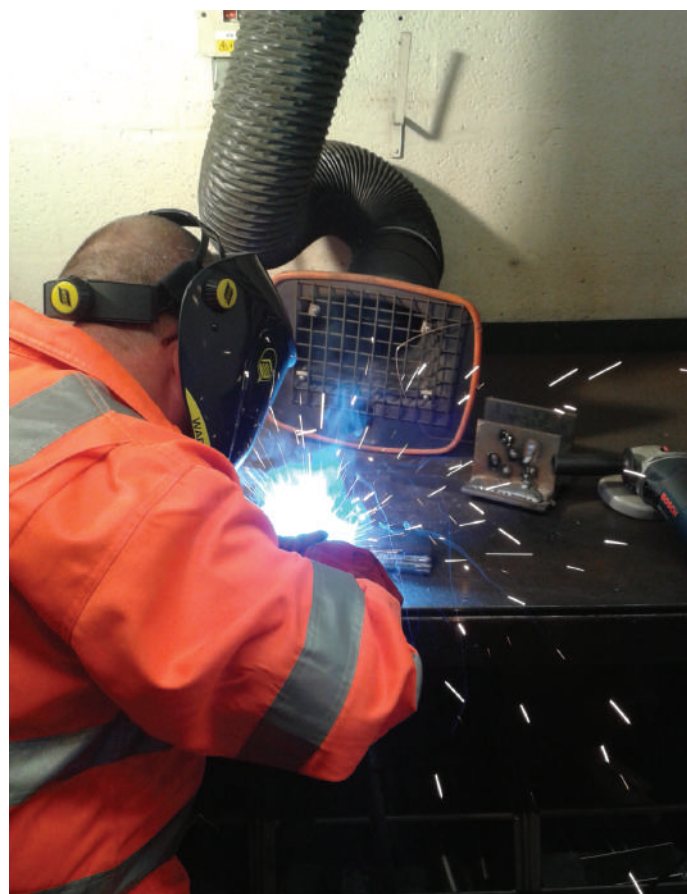


In addition to the Welding Courses for more experience operators, Telford Group Ltd can offer a: **Basic Welding and Process Knowledge Course for first time welders.**

The aims of these courses are to give the delegates an understanding of how the most commonly used welding processes of MIG and MMA (stick) welding work, give practical instruction on the operation and applications and the safe use and handling of the equipment and ancillaries.

Below is an example of a typical days training for a combined MIG and MMA course, but this can be tailored to suit any requirements.

- Introduction to the welding process's, how and why the process's works.
- Advantages and disadvantages of each process.
- What type of equipment is in common use.
- What consumables are needed for welding?
- What safety and protective clothing is required for the operator and any other persons around the welding area.
- Setting up a MMA(stick) welder, connecting to the power supply, connecting the welding leads, selecting the welding rod for the job.
- Practical welding instruction, best techniques, and understanding the features of a good weld.



- Setting up a MIG welder, connection to the power supply, gas supply, selecting the correct torch parts and welding wire, setting the gas pressure and flow, setting the welding voltage and wire speed.
- Practical welding instruction, best techniques and understanding the features of a good weld.

A Certificate of attendance will be provided for each delegate.

An additional report on the individual delegates by the instructor can be provided on request. This course can also be adapted to be run at a clients own job site or offices.

Telford Group offer a basic course for TIG welding which requires a full day on the process to give the delegate a good understanding of the process for steels and aluminium and the techniques of welding.

The TIG process requires significant time and practice to develop a skill level for the production of high quality and an approval to ISO EN 9606-2:2013. This course is designed to give the operator a good grounding to develop their own skills from and is an excellent course for the enthusiastic amateur when purchasing their first TIG welding machine.

Our Advanced MIG Welding Awareness Course

A Two Day course, The aim of this course is to give delegates a more detailed understanding of how the welding processes work, to give both theory and practical instruction on the operation and applications and the safe use and handling of the equipment and ancillaries. The course will also help delegates develop their welding skills to help them spot and solve potential problems with the weld itself and with machines.

Below is an example of an advanced MIG welding course, but this can be tailored to suit any requirements.

Two thirds of the course is practical based with the rest being training room based. Each person attending would be required to bring a welding head shield, suitable overalls and gloves and be wearing safety footwear. We would provide the material and machines to train on, but for this level of training a delegate is welcome to bring a machine that is used daily. Should you also wish the training to involve any specific component or materials, we would just require a sample before training begins, to allow the instructor to be correctly prepared.

A Program for the course is as follows:

Day 1

- An introduction to the MIG welding process, how and why the processes works.
- Advantages and disadvantages of the process.
- What type of equipment are in common use, a detailed look at Compact and Separate Machines both Conventional and Inverter based.
- How is the Main voltage transferred to welding current, a look at the passage through the weld machine.
- What consumables are needed for welding and why.
- Common fault areas with MIG Welding Machines
- Welding Gas information and Hazards.
- What safety and protective clothing is required for the operator and any other persons around the welding area.
- A brief overview of the MMA & TIG Welding
- Setting up a MIG welder, connection to the power supply, gas supply, selecting the correct torch parts, welding wire, setting the gas pressure and flow, setting the welding voltage and wire speed.

Day 2

- Practical MIG welding instruction in the workshop
- Simulation of common welding faults and how to recognise them and solve them.
- Review of the two days training, questions and answer session



Welding Supervisors Course

This course is ideally aimed at Supervisor, Team leader and Senior production staff and can be tailored for either of the welding process, for the example we have used MAG Welding.

The course is a single day, held on site with the option of a second day if required to help increase the delegates hands on welding skills.

As this course is aimed at increasing the understanding of your equipment, we would require use of a machine within your

factory and a suitable area to provide the training, full details to be confirmed if a booking is placed. We'd also require a supply of material and consumables for each.

A Program for the course is as follows:

The aim of this course is to give the delegates an understanding of how the MIG welding process works and to help spot and solve potential problems with the weld itself and with machines.

Day 1

- An introduction to the MIG welding process, how and why the process works.
- Advantages and disadvantages of the process.
- What consumables are needed for welding and why.
- Common fault areas with Manual and Robotic MIG Welding Machines.
- What safety and protective clothing is required for the operator and any other persons around the welding area.
- Setting up a Manual MIG welder, connection to the power supply, gas supply, selecting the correct torch parts, welding wire, setting the gas pressure and flow, setting the welding voltage and wire speed.
- Instructions on the setting of Robotic Machines (if used), torch distance and angles
- Simulation of common welding faults and how to recognise them and solve them.

Day 2 - Optional

Practical Hands on Manual MIG welding instruction to increase the knowledge and skill level



Advanced Welding Course for MIG and/or TIG Welding

This course is aimed at delegates who already have TIG and/or MIG welding experience and will further enhance their skills to weld conventional joints in both plate and pipe. One the course we would cover:

- Health and Safety principles as related to TIG/MIG welding
- Preparation and adjustment of equipment for best end results
- Identifying filler wires and gases
- Weld defects and fault analysis, plus fault correction
- AC/DC methods as applicable (TIG Only)
- Lap, Tee and Butt Fillets in vertical positions
- Fusion runs on outside corners
- Weld joints in the vertical, horizontal, and overhead position
- Pipe and plate multi-positional butt joints
- Purging applications and practical advice (TIG only)
- Practical Testing and Exercises - in welding positions specific to company requirements

This advanced course would be either a 3 – 5 day course, with the duration designed to suit your requirements.



The Single Day, How to MIG Weld Course

This single day course at our Telford Based Welding School will cover the following:

Theory and Practical on Metal Inert Gas Welding (MIG)

During the course we'll cover:

- Safety In Welding
- What is MIG Welding
- MIG Advantages
- MIG Applications
- Setting up of a MIG Welder
- Troubleshooting Welds
- Technique and how to use the torch
- Producing Fillet & Butt Welds
- Material Preparation
- Advice on applications.



The Single Day, How to Arc (MMA) Welding Course

This single day course at our Telford Based Welding School will cover the following:

Theory and Practical on Manual Metal Arc (MMA) Welding

During the course we'll cover:

- Safety In Welding
- The equipment for carrying out MMA welding.
- Safety with MMA welding.
- Setting up an MMA welder
- Understand the terminology used in welding.
- Identify electrode sizes and their correct amperages.
- The method used in striking and maintaining the arc.
- The importance of electrode angles and amperages.
- Electrode travel speed and angles.
- Producing a "T fillet".
- Material Preparation
- Advice on applications.

These courses are for groups of up to 8 people and during the courses you'll use various types of welding equipment including the NEW Multi Process Inverter MIG Welders. You'll receive instruction on a various range of material thicknesses with the goal of covering the basic principles of MIG or MMA welding and setting you on the right path to ensure you get the best results you can. A How To Weld Guide Book and Welder Settings Guide are provided. The course is held from 9.00am to 4.00pm (12.00-1.00pm Lunch Break)



The courses are ideal for the total beginner welder

Are you ready for BS EN 1090 and the CE marking of Structural Steel Work?

There are several important steps a business will need to take in order to be compliant.

1. Work out which Execution class is obtainable for the business.
2. Make sure all Welders have a Weld Procedure to BS EN 15614.
3. Make sure all welders have EN 150 E960C Welder Approvals.
4. All Welds must be 100% visual inspected.
5. The company must appoint a RWC – Responsible Welding Co-ordinator
6. The company needs to create a Weld Map.
7. The company must have qualified NDT personal.
8. The Company must have a FPC – Factory Production Control system in place.
9. A UKAS Accredited NB (Notifying Body) needs to be appointed to audit and issue the approval.



So what can Telford Group Ltd do to help you?

We can provide advice and services within various sections of BS EN 1090

These include:

- Creation of Weld Procedures to BS EN 15614.
- Site Visits to write or assist in the creation of weld procedures.
- Training of Welders to Gain EN ISO E9606 Welder Approval Qualifications.
- BS EN 287 & ISO 9096, new Approval and Renewals
- Welding equipment calibration set up servicing & repairs.
- Our service engineers have numerous year experiences and are fully versed in all the major welding equipment manufactures machinery. We can provide both on or off site servicing, repair and machine calibration packages. Machines can be calibrated at our Telford Service centre or our engineers can visit site using custom made site calibration equipment to fully assess and calibrate your welding plant in your own workshops and issue relevant certification on the machines.
- Supply of quality welding consumables, supplied with full traceability documentation.
- We are regional and local distributors of leading brands of internationally recognised welding consumables such as torch spares and filler rods and wires.
- Full Training of your RWC
- Help and advice in the creation of the Weld Map
- Pre-prepared guides and Weld Map Folders are available from our Training and Service Team.
- Training of staff on Industrial gas's & Oxy/Fuel Gas Awareness training.
- Our registered and extensively experience training staff can provide training to suit as well at provide your company with your annual CP7 and GN7 inspections for your gas equipment.
- NDT Advice, Inspection and Consumables.
- Our PCN Qualified staff can provide certain levels of NDT, provide advice and consumables and equipment required for the NDT process.



Don't be afraid of BS EN 1090, But Remember as of 1st July 2014, it is LAW

Oxy-Fuel GAS Portable Cutting/Welding Equipment Safe Use & Handling Course

In accordance with British Compressed Gas Association Code or Practice 7.

This one day course involves, in the first part, a technical lecture lasting two and a half to three hours, including the use of a video, all training room based. The second part is workshop based and is on the safe practice and use of the equipment, this requires two to three hours, dependant on the number of attendees.

Topics covered:

- Safe storage and handling of industrial compressed gas cylinders.
- Health & Safety aspects, Oxygen and Fuel Gases, Acetylene & Propane.
- Equipment: Regulators, Flashback Arrestors, Hoses, Hose check valves, Cutting and welding blowpipes, Cylinder keys and spanners, Spark lighters, Goggles.
- Heat & eye protection.
- Equipment assembly, leak testing.
- Regulator settings and diaphragm loads.
- Transportation.
- Inspection of equipment prior to assembly.
- Assembly of equipment and set up.
- Lighting the Blowpipe.
- Safe use and practical cutting/welding.
- Shutdown of flame.
- Shutdown of equipment.
- Storage when not in use.

For those who are not using Oxy-Fuel Gas Cutting or Welding Equipment and just require a course covering Safe Use and Handling of Industrial Gases, the course can be tailored to suit your requirements.



Annual Inspections of Oxy Fuel Gas Equipment and Mobile Gas Cylinder Regulators in accordance with BCGA CP7 and GN7

Telford Group Ltd can now offer the industry a very quick and easy way to avoid the pitfalls associated with industrial gas safety, and comply with the BCGA* codes of practice. Our on-site gas safety equipment check will provide you with a full inspection by a qualified Inspector.

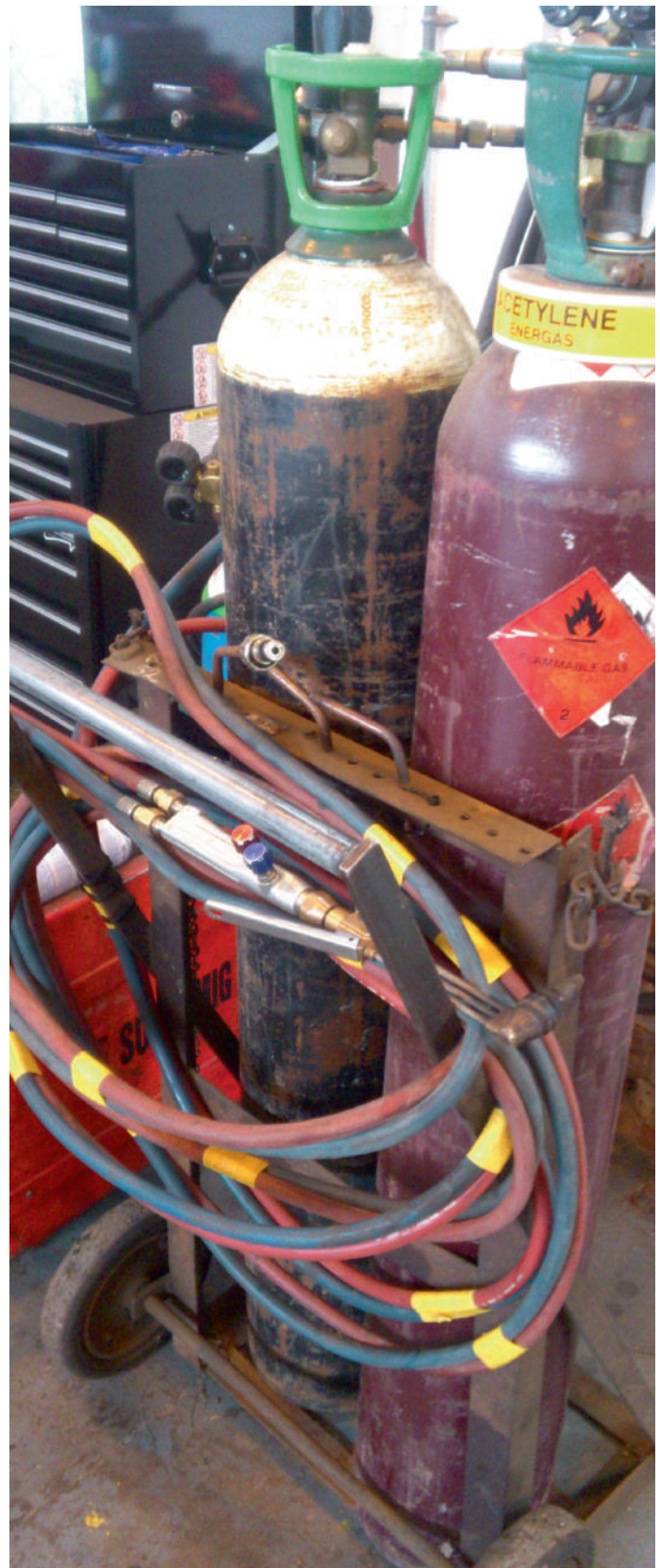
During the inspection, the engineer will carry out a thorough functionality and leak test of all components - regulators, flashback arrestors, hoses, torches and associated fittings. In addition, a report of their findings will be issued and the inspector will update you on current Health and Safety and BCGA Codes of Practice.

Gas equipment can be a hazard at work if it's not correctly maintained. Using unsafe equipment or failing to test equipment fully could result in accidents and serious injury in the workplace. Under Section 2 of the Health and Safety at Work Act 1974, an employer or self-employed person has a responsibility to provide and maintain plant and systems of work that are, so far as reasonably practical, safe and without risk to health. Statutory Instrument 1998 No. 2306:

The Provision and Use of Work Equipment Regulations 1998 requires that the user of an installed system and the owner of a mobile system shall ensure that the system is properly maintained in good repair, so as to prevent danger. Statutory Instrument 2000 No. 128: The Pressure Systems Safety Regulations 2000 requires equipment to be examined regularly. Consequently, gas welding and cutting equipment must be checked regularly.

The BCGA's Code of Practice 7 (CP7) (the safe use of oxy-fuel gas equipment) and Guidance Notes 7 (GN7) (the safe use of individual portable or mobile cylinder gas supply equipment) recommends that regulators and flashback arrestors be checked annually and replaced every five years. Checks need to be undertaken by a person who has sufficient practical experience of oxy-fuel gas equipment and theoretical knowledge of the functioning of the equipment, the properties of gases used, the potential defects and hazards that may occur and their importance to the integrity and safety of the equipment. The safety notes applicable to CP7 and GN7 give the minimum safety standards for the use, inspection and maintenance of equipment.

*BCGA - British Compressed Gases Association



Oxy Fuel Gas Cutting or Welding Competency Course

This course is aimed at staff who are required to competently and safely operate oxy-acetylene or oxy-propane cutting and burning equipment.

The course includes a relevant safety lecture and delegates are advised on the welding safety relevant to their individual workplace environment.

The delegates are trained on the equipment used within their own works areas therefore familiarising them with all the functions, capabilities and safe use of the equipment. This ensures your company has complied with legislation by carrying out formal training in line with the requirements of The Provision and Use of Work Equipment Regulations 1992.

This course will introduce staff to the oxy fuel cutting process and will enable them to develop a range of skills, knowledge and practical techniques to produce good quality cuts on variety of materials. Delegates will also be aware of the correct procedures and safe working methods and practices in the safe handling and storage of equipment and gas cylinders.

- Health and Safety requirements
- Safe working practices
- Cylinder handling
- Hands-on exercises
- Pre-Inspection and Preparation of cutting equipment
- Cutting process for square edge and bevel cutting
- Correct shutdown procedures
- Safe storage of gas cylinders and cutting equipment



Industrial Gas Manifold Installations and Annual Inspections

Many applications for the use of industrial gases require a gas distribution system to be installed.

Telford Group Ltd, can advise, design and install a wide range of pipe line and manifold systems for a wide range of applications ranging from college teaching areas, welding workshops, through to laboratory applications.

All our piping systems are designed and installed in a manner which complies with relevant legislation, i.e. the Pressure Equipment Regulations of 1999 (S.I. 2001). And our installation and design team will follow BCGA Codes of Practice CP4, for most industrial gases, CP6, for acetylene,

and CP18, for special gases and be able to provide detailed guidance on how systems work and will be operated on a day to day basis.

So whether it is single cylinder installation or a multi cylinder and multi gas installation at Telford Group we are more than happy to provide a quotation.

What's more if you have an existing manifold and pipe line installation our engineers in accordance with BCGA Codes of Practice CP4, CP6, and CP18, Telford Group Ltd can provide annual testing, maintenance and system upgrades as required.



Health & Safety in Welding Processes

This course is aimed at staff who work within a welding environment and will highlight the hazards and consequences of improper equipment use and lack of routine equipment maintenance - applicable to various welding processes such as (MMA) Manual Metal Arc, (MIG) Metal Inert Gas and (TIG) Tungsten Inert Gas and Oxy-Acetylene and Oxy-Propane.

The course will include a safety lecture relevant to the welding process involved and delegates are advised on the welding safety in their individual workplace. The delegates are trained on the equipment used within their own works areas therefore familiarising them with all the functions, full capabilities and safe use of the equipment. This ensures your company has complied with legislation by carrying out formal training in line with the requirements of The Provision and Use of Work Equipment Regulations 1992.



- Health and Safety requirements
- Dangers of Fumes, Gases and radiation and their extraction
- Mechanical Hazards and dangers of overexposure to noise
- Correct selection and use of correct P.P.E.
- Safe Use/Operation of Welding equipment.
- Potential hazards of operating badly maintained equipment
- Potential working environment hazards
- Accident Prevention: Incorrect handling, faulty eye protection, unsuitable PPE, Burns
- Safe handling and storage of gas cylinders
- Planned/Routine inspection and testing of equipment and work environment
- Oral Knowledge Testing
- Practical Safety Exercises



Testing and Servicing of Welding Fume Extraction & Local Exhaust Ventilation (LEV) Systems.

Welding fume is an unavoidable by-product of welding. The welder should be aware of what fume is likely to be generated while welding is taking place and the potential hazards associated with exposure to that fume. Fume consists of particulate fume (the part you can see) and gaseous fume (the invisible part occasionally smelled).

Particulate Fume: Particulate fume is commonly formed from vaporisation of the welding consumable. The composition of particulate fume produced by MMA welding depends on the composition of the consumable, the type of coating on the electrode and, to a lesser extent, on the composition of the material(s) being welded. The following statements give a general indication of what the constituents of the particulate fume are likely to be.

Gaseous Fume: With MMA welding, there is very little gaseous fume produced under normal circumstances. Cellulosic electrodes do produce carbon dioxide but with good general

ventilation, this is not likely to present a significant hazard. It is a legal requirement to have your LEV or fume extraction system tested, as set out in the Health and Safety at Work etc Act 1974, for any employer to maintain working conditions for employees. Any employer that uses LEV techniques in the workplace must have equipment examined and tested every 14 months to ensure it is working effectively and safely.

Telford Group's test engineer will undertake a thorough examination of equipment including hoods, filters and ducts, measure the technical performance and assess the effectiveness of the LEV system.

Recommendations will then be detailed in a report. The correct operation fume extraction system and or local ventilation (LEV) system is critical to the health and safety of employees. Telford Group Ltd can inspect your system and provide suitable advice on its operation as well as service the system or unit as required.



PORTABLE APPLIANCE TESTING (PAT)

The UK Provision and Use of Work Equipment Regulations 1998 (PUWER) states at Regulation 4(1): “every employer shall ensure that work equipment is so constructed or adopted as to be suitable for purpose for which it is used or provided.” The Electricity at Work Regulations 1989 states at Regulation 4(4): “As may be necessary to prevent danger, all systems shall be maintained so as to prevent so far as reasonably practicable, such danger.” This means that employers (and self-employed) must ensure that all electrical work equipment is safe, properly looked after and suitable for purpose. This legislation covers everything from small portable equipment, eg. hand drill to large fixed distribution systems. The requirements apply to fixed and “hard-wired” electrical appliances also, in addition to portable and hand-held appliances which plug in such as vacuum cleaners, both single and 3 phase. Different maintenance regimes are recommended for fixed and for portable electrical equipment. “Portable equipment covers the following types of equipment:

Stationary equipment: eg a fridge.

Information technology equipment: eg, a PC or printer.

Movable equipment 18kg or less and not fixed, eg, a small welder.

Portable equipment 18kg or less that can be moved while being used: eg, a kettle.

Hand-held equipment: eg, powertools.

The routine inspection and testing of portable and fixed electrical equipment, especially those used in severe environments such as building sites is an important safety requirement. Telford Group Ltd’s trained personnel can test equipment and appliances either on or off site, to suit your requirements. Call 01952 290800 for pricing and further information.



GENERAL WELDING & GAS CUTTING OR HOT WORKS COURSE

Day 1, Morning Session

Theory and Practical on Safety in Gas Cutting covering;

- Oxy/fuel Gas Equipment
- The Main Hazards
- Gas Leaks from Equipment
- Backfires
- Flashbacks
- Acetylene Cylinders
- Oxygen Misuse
- Transporting Cylinders

Day 1, Afternoon Session

Theory and Practical on Manual Metal Arc Welding (Arc Welding) covering;

- The equipment for carrying out MMA welding.
- Safety with MMA welding.
- Understand the terminology used in welding.
- Identify electrode sizes and their correct amperages.
- The method used in striking and maintaining the arc.
- The importance of electrode angles and amperages.
- Producing a "Tee fillet".

Day 2, Morning Session

Theory and Practical on Metal Inert Gas Welding (MIG) covering;

- Safety In Welding
- Gas Types
- What is MIG Welding
- MIG Advantages
- MIG Applications
- MIG Variables
- MIG System
- Troubleshooting Welds

Day 2, Afternoon Session

Welding practice and Assessment to cover;

- Safety in Gas Cutting
- Safety in Welding
- Gas Cutting to cover cutting a;
 - hole
 - freehand curve
 - straight line
- Production of test welds to include a;
 - 'Butt' weld in MIG on 6mm plate
- 'Tee' fillet in Arc on 6 mm plate

This is a course that can be run at either the Telford Welding School or at a client own premises and we can modify the course content to suit requirements.



WELDER CALIBRATION TO BS 7570.2000

As the desire for standardising procedures grows, such as the current EN1090 requirements for CE marking of structural steel, more and more companies will be required to provide full traceability of materials, equipment and qualification/coding of personnel used in manufacturing their product or supplying their service.

As one of the UK's largest independent suppliers of welding equipment, We can provide provided a class leading, welding equipment, Calibration/Validation service to many clients around the UK.

The testing is carried out, in compliance with, BS 7570-2000 and the certification provided has been assessed and approved by some of the most prestigious companies in the UK. All equipment used by our Test Engineers, is tested, calibrated and certified, to UKAS Standards, providing full verification and traceability, to clients, auditors and insurance houses

Our fully qualified engineers can supply and fit meters under customer's instructions to enable a calibration/validation. On completion well-presented reports are supplied for customer's own Health & Safety records.

The industry recommends that calibration/validation be carried out on an annual basis however to comply with current legislation our equipment is tested every six months to ensure accurate results.



WELDING SUPERSTORE

01952 290800

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