



MESSER 
Cutting Systems

Skill Development

Training Workshops for Thermal Cutting and Welding

Training Workshop for thermal Cutting and Welding

To the endeavour of 'Skill India' mission, we undertake to establish Training Centres on Turnkey basis as Knowledge Partners - covering Design and setting up of Thermal Cutting & Welding Workshops with supply of

- Heating, Cutting, Brazing Equipments
- CNC Trainer cum Machine
- Welding and Cutting Booths
- Welding Equipments and Accessories
- Welding Simulator
- Gas Manifold System
- Work Benches and Workshop Equipments

The Scope includes Content Development, Training the Trainer and Joint Assessment and Certification of Candidates.

For existing set ups which are already there in institutions, we offer facility upgrade packages as required by the institute.

Training in such world class modern workshop facility increases the skill sets multifold which enhances employability.

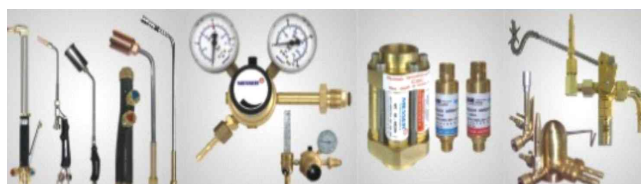


Welding & Cutting Stations with Fume Extraction

We construct booths of required dimensions made of Steel plates and angles with a DIN 13 shade protection glass window for the instructor to see the jobs being done by the student in the enclosure. These booths are connected to a centralized fume extraction system, which ensures a clean training atmosphere. Each booth has a tool cabinet where a student can keep his belongings safely.

The fume extraction system is designed to extract all the welding fumes from the welding as well as cutting booths. This system is made from good quality GI ducts with exhaust fans or blowers filter as per the load and is painted and erected as per industry norms.

The gas brazing / heating / cutting booths are made of angles complete with fire bricks on both sides of the work place with a steel sheet partition. These booths are fixed with gas economizers, Oxygen and DA antistatic hoses with clamps and quick release couplings and the state of the art Cutting / heating or brazing equipment with BAM approved safety devices.



Welding Equipment and Welding Simulator

- Supply of Inverter base programmable welding machines.
- Exposure to these high end machines will make student ready to handle equipment in the industry with ease.
- Welding simulator reduces cost of training.
- Simulator increase training capacity of institute.



Laser Cutting and Beveling system

When Cutting with laser, beam is focused on the material through the hole in the nozzle. This heats the material and melts it. A cutting gas removes the molten material.

The cut quality and speed are very high in laser cutting compared to other cutting technologies.

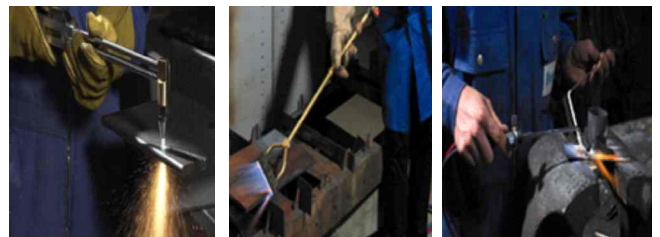
It is used wherever high accuracy for the component geometry and the cut edge is required.

Typically it is used to cut 0.5 to 20 mm thicknesses for steel, stainless steel, copper, aluminium, brass etc.



Thermal Cutting Heating and Brazing Equipment

We propose the usage of world class cutting and heating equipment which will introduce the student to rugged and sturdy equipment designed for maintenance free long usage.



CNC Trainer and CNC Cutting Machine

We propose the installation of CNC cutting machine which is widely used in the industry for straight and bevel cuts and CNC Trainer which enhance the skills in mechanized cutting operation of Oxy-fuel and Plasma.



Training and Certification

In times of increasing competition it is only logical response to invest in the knowledge and competence of employees. Increasing the quality and production of the company is the focus of our activities.

- Impart technical skills & knowledge in the areas of Thermal Cutting, Heating, Brazing, Welding & Testing, Safety of Gas Equipment in a perfectly methodical manner-often directly on the machine or equipment.
- To carry out Certificate courses on Oxyfuel / Plasma cutting operation, Welding, NDT etc. by conducting knowledge and practical test.
- Special course on Safe working on fuel gases and oxygen.
- Training the trainers.
- Certification of welding personnel.



Central Gas Distribution System (Gas Manifold system)

A Central Gas Distribution System in a workshop is used to feed several tapping points at individual workplaces via a system of pipework. The individual points- of- use are fed with gas from the central storage device via the manifold pipework.

The central gas system components for technical gas are manufactured according to the relevant rules and regulations and sound engineering practice.

Each complete system and its individual components are tested for function and leak tightness and therefore guarantee the well- known Messer quality.

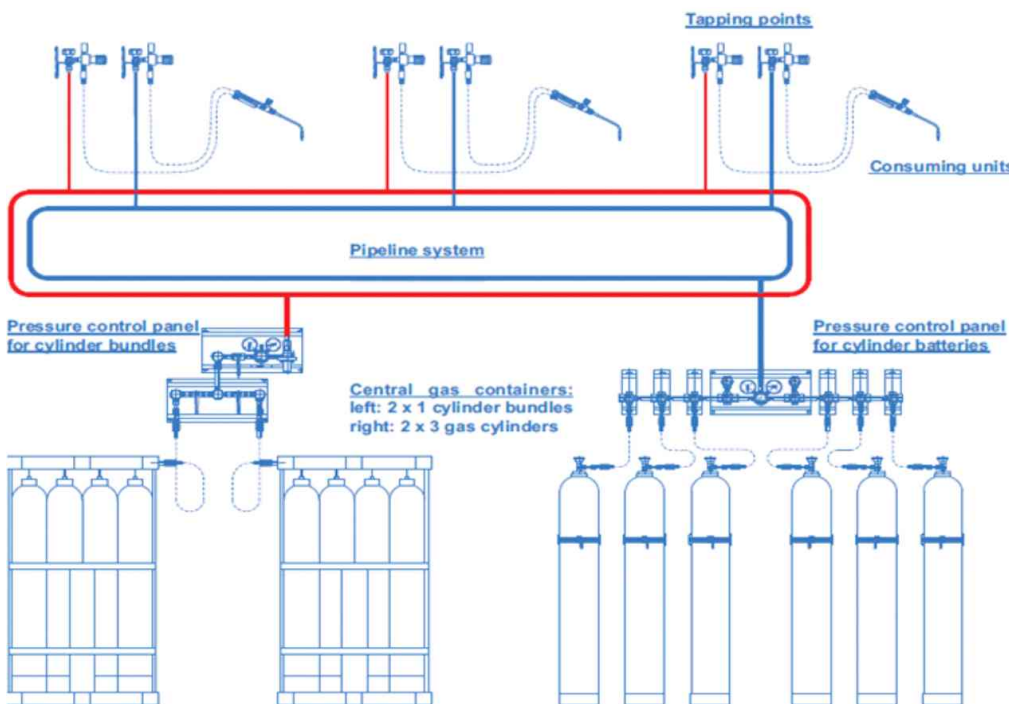
Advantages:

1. Reduced risk of accidents
 - No more gas cylinders in the immediate surroundings of the workplaces
 - Several hazards are ruled out such as:- Cylinders falling over,

leakages of toxic or flammable gases. No more high pressure components at the workplaces

2. Considerable cost-saving potential
 - Time required for cylinder changes is reduced to a minimum
 - More efficient emptying of the storage devices
 - Fewer gas cylinders are required-therefore lower cost in gas cylinder rentals
3. Dimensional advantages
 - Less room required for centrally located storage devices
 - Only tapping points required at the individual workplaces
4. Optimised work process
 - Continuous gas supply to the individual workplaces
 - Easy control over the gas supply via central gas storage contents monitoring

Schematic example for a central gas supply system



System components:

(Cylinder) pressure regulators, Valves, Pressure control panels, Tapping points, filter, flashback arrestor accessories



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