



Guidelines – ARC Welding & Gas Cutting



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WELDING MACHINE

- Select correct welding machine & rod suitable for metal welded
- Ensure all the connections are made by certified electrician
- Ensure the cable routes are free from fall/ trip/slip hazards
- Authorise the competent person to operate this machine
- Ensure permit systems are followed in each work shift.

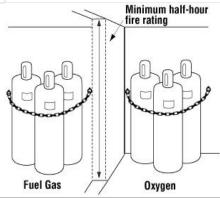
WELDING ROD & HOLDER

- Do not bend the welding electrode
- Ensure the holder is properly insulated
- Ensure the cable from holder to machine is free from damages
- Do not keep the electrode in holder when not in use.
- Ensure Suitable fume extraction is done

GAS CUTTING

- Gas cutting allowed only by using oxygen and acetylene industrial cylinders with proper flash proof systems.
- Select red colour hose for acetylene cylinders and green colour for oxygen.
- Maintain the gauges in working condition
- Ensure the hoses are clamped properly.







CYLINDER TROLLEYS

- The Gas cylinders never be allowed without proper trolleys while at task.
- Trolleys are only for ground movement and not for lifting. (unless it is designed for lifting and certified)
- Gas cylinders must be available with the same slab where job is done
- Keep the combustible materials and flammable materials away
- Gas opening and closing cylinder key must be available in trolley
- Condition of trolley and wheels must be checked regularly.

CYLINDER STORAGE

- Gas cylinders must be stored in well-ventilated & shaded area
- Minimum 6m distance shall be maintained from other flammable cylinders or combustible materials.
- Valve caps and chains shall be used to secure cylinders
- Full and empty cylinders shall be stored separately
- Ensure the ground / floor is free from corrosion /dampness

TRAINING & USE

- Specific training must be given to all persons involved in arc welding and gas cutting
- Only competent and certified personnel should be engaged.
- No such works allowed to perform without permits
- Fire watcher / fire marshal must be engaged for these activity
- PTW systems should be issued and followed very specific to the activity and location.