

Guidelines – ARC Welding & Gas Cutting



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<p>WELDING MACHINE</p> <ul style="list-style-type: none"> • 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. 	<p>WELDING ROD & HOLDER</p> <ul style="list-style-type: none"> • 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 	<p>GAS CUTTING</p> <ul style="list-style-type: none"> • 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.
<p>CYLINDER TROLLEYS</p> <ul style="list-style-type: none"> • 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. 	<p>CYLINDER STORAGE</p> <ul style="list-style-type: none"> • 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 	<p>TRAINING & USE</p> <ul style="list-style-type: none"> • 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.