( [ MELY Tailgate	/Toolbox Safety Training	(P)
	fety Meeting Division, PO Box 6408 Yuma, AZ 85366-6408 Toll Free (866) 204-4786	SAM
Company Name:	Job Site Location:	Lis Cis
Date: Start Time:	Finish Time: Foreman/Supervisor:	
Topic	665: MIG and TIG Welding (Part A)	
<b>–</b>	operate MIG and TIG welders. Following are safety guidelines for ensuring safe operations:	
	ion in the operator's manual or contact the manufacturing company when in doubt.	
	ce intense visible and invisible (ultraviolet and infrared) rays that can burn eyes and skin.	
	y these rays. Welding helmets should be fitted with a proper filter shade	
<ul> <li>to protect the operator's face and eyes when</li> <li>Approved safety glasses with side shields sl</li> </ul>	hould be worn. Screens or barriers to protect others from flash and glare	
should be installed where appropriate and n		
	-resistant. Clothing made from a dark-colored, tightly woven material is	
	loves should be worn to protect hands and wrists. Leather aprons or jackets provide body protection and even front realists are not advised as they may attach angles. Parts sufficient as	
	oned, and open front pockets are not advisable as they may catch sparks. Pants cuffs are not rec- hot conditions, take frequent rest periods, and dry off equipment and clothing. Frequently	
	avoid perspiration from accumulating on them. If clothing is soaked with perspiration, it must b	
	r will be subjected to light, heat, smoke, sparks, and fumes. Permanent booths or portable parti	itions can be
	and sparks given off are capable of setting flammable materials on fire.	
	ning flammable gases, vapors, liquids, or dust because explosions are a possibility. come near the region of the arc may give off smoke and fumes during welding. These fumes	s may nose a
	aust hood or booth should be used to remove fumes from the area.	niuj pose u
<b>o i</b> ,	is inside tanks or large containers, toxic fumes may gather. Remember, in an enclosed room	
	es used for welding or purging. Care must be taken to ensure enough clean air for breath	ing. Certain
situations require welders to wear air masks Power Source and Primary Power Line-Grou	unding the Equipment: Welders must always be concerned about the possibility of electrical	shock.
	because water is an excellent conductor and electricity will always	
	erson's perspiration can lower the body's resistance to electrical shock.	
<ul> <li>Stand on a dry rubber mat, or when welding</li> <li>Baser compactions and here anots on apples</li> </ul>		andad
	further increase the possibility of electrical shock. A daily inspection of these items is recommo beet for effective ground connections. A proper ground connection is always necessary because	
	he frame to the earth. Connections used for grounding an engine-driven welding machine inclusion	
	ng machine to a metal stake placed in the ground.	
	e or chassis of all electrically powered machines must be connected to a good electrical group	nd. This can
	erly grounded building frame or other appropriate ground. he work lead connects the work terminal on the power source to the workpiece. A separate lead	d is required
	Chains, wire ropes, cranes hoists, and elevators must never be used as grounding connectors.	
	ildings, power tools, work benches, welding power source cases, and workpieces.	
<ul> <li>Never touch the electrode and any metal ob</li> <li>When installing a walding system</li> </ul>	ject unless the welding power source is off. the frames of each unit such as the welding power source, control, work table, and water circ	vulator to the
	quate to carry ground currents safely. Equipment made electrically hot by stray current ma	
	ical conduit or to a pipe carrying any gas or flammable liquid such as oil or fuel.	
	e requirements of equipment before installing. If only three-phase power is available, connect s	
	hase line. Do not connect the equipment ground lead to the third (live) wire, or the equipment of a continuity. Make gues conductors are touching here match of a guirment formers at a	
	ground for continuity. Make sure conductors are touching bare metal of equipment frames at co provided with the equipment for connection to a switchbox, connect the ground lead to the	
	for connection to a grounded mating receptacle, the ground lead must be connected to the gr	
	ong plug, connect to a grounded mating receptacle. Never remove the ground prong from a plug	g.
<b><u>Conclusion</u></b> : Retrain all workers periodically. F	Follow these safety guidelines to ensure safe MIG and TIG welding operations.	
	Work Site Review	
	S:	
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Employee Signatures:	(My signature attests and verifies my understanding of and agreement to comply with, all company saj and regulations, and that I have not suffered, experienced, or sustained any recent job-related injury	
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Foreman/Supervisor's Signature: \_

These guidelines do not supercede local, state, or federal regulations and must not be construed as a substitute for, or legal interpretation of, any OSHA regulations.