

Foreman/Supervisor's Signature: _

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Date:	مريك لينه
Introduction: Only qualified workers should operate MIG and TIG welders. Following are safety guidelines for ensuring safe operations: Welding produces fumes and gases. Breathing these fumes and gases can be hazardous to your health. Keep your head out of the fumes. Whe ventilate the area and use local forced ventilation at the arc to remove fumes and gases. When ventilation is poor, wear an air-supplied respirator. Always have a trained watchperson nearby. Work in a confined space only if it is well ventilated, or while wearing an air supplied respirator. Always have a trained watchperson nearby. Welding fumes and gases can displace air and lower the oxygen level causing injury or death. Be sure the breathing air is safe. Read and understand the Material Safety Data Sheets (MSDSs) and the manufacturer's instructions for metals, consumables, coatings, clea degreasers. Do not weld near degreasing, cleaning, or spraying operations. The heat and rays of the arc can react with vapors to form toxic ge Do not weld on coated metals, such as galvanized, lead, or cadmium plated steel, unless the coating is removed from the weld area, the are ventilated, and while wearing an air-supplied respirator. The coatings and any metals containing these elements can give off toxic fumes if we will always to the point of generation, welding fumes are exhausted through the slots on the gun. The air can be exhausted by a welding fume extractor through filters, and discharged back into the workplace. The air from the welder must be cleaned before it is recirculated back into the workplace. Because filters can have holes, there is a possibility of inadvertently recirculating contaminated air into the workplace. As a result, specifif for the recirculation of air from industrial exhaust systems should be used. In using this criterion, one must consider the probability and conso of an air cleaner failure. In addition, a monitoring system must be used which provides adequate warning of an air cleaner failure. Try to use a welding sys	
■ Welding produces fumes and gases. Breathing these fumes and gases can be hazardous to your health. Keep your head out of the fumes. Whe ventilate the area and use local forced ventilation at the arc to remove fumes and gases. When ventilation is poor, wear an air-supplied respirate. Work in a confined space only if it is well ventilated, or while wearing an air supplied respirator. Always have a trained watchperson nearby. ■ Welding fumes and gases can displace air and lower the oxygen level causing injury or death. Be sure the breathing air is safe. ■ Read and understand the Material Safety Data Sheets (MSDSs) and the manufacturer's instructions for metals, consumables, coatings, clea degreasers. Do not weld near degreasing, cleaning, or spraying operations. The heat and rays of the arc can react with vapors to form toxic ge a Do not weld on coated metals, such as galvanized, lead, or cadmium plated steel, unless the coating is removed from the weld area, the arr ventilated, and while wearing an air-supplied respirator. The coatings and any metals containing these elements can give off toxic fumes if w At the point of generation, welding fumes are exhausted through the slots on the gun. The air can be exhausted by a welding fume extractor through filters, and discharged back into the workplace. The air from the welder must be cleaned before it is recirculated back into the workplace are such as the recirculation of air from industrial exhaust systems should be used. In using his criterion, one must consider the probability and conso of an air cleaner failure. In addition, a monitoring system must be used which provides adequate warning of an air cleaner failure. ■ Try to use a welding system that involves a very low air flow. The air from the air cleaner can than be simply ducted outside. ■ Remember, containers can be toxic, explosive, or flammable. All it takes is an errant spark to cause an explosion or flash fire if vapors are provided to the provided the provides of the difference of the dimes: ■ Wo	
sheets for some automotive paints report that toxic metals such as chromium and lead are present in some formulations. Iron oxide: Welding on iron surfaces produces an iron oxide fume. Excessive exposure to this fume can cause the development of lung changes that show up on X-rays. However, these lung changes do not appear to be associated with any physical impairment of the lung. Chromium: Paints may contain chromates and hexavalent chromium as a pigment. These compounds can produce health effects such as dermatitis, irritation, and ulceration of the nasal mucosa, and perforation of the nasal septum. Certain insoluble hexavalent chromium composuspect carcinogens. New data supports the danger associated with hexavalent chromium. Wear an air-supplied respirator. Lead: Lead adversely affects several organs and systems. The four major target organs and systems are the central nervous system, the pnervous system, kidney, and hematopoietic (blood-forming) system. Inhalation or ingestion of inorganic lead can cause loss of appetite, metallic taste in the mouth, constipation, nausea, pallor, blue line on malaise, weakness, insomnia, headache, muscle and joint pains, nervous irritability, fine tremors, encephalopathy, and colic. Exposure can result in a weakness in the wrist muscles known as "wrist drop," anemia (due to lower red blood cell life and interference w synthesis), proximal kidney tubule damage, and chronic kidney disease. Elevated blood pressure has been positively related to blood lead lev Ozone: Welding can generate ozone and nitrogen oxides. High concentrations of ozone can be emitted when welding is done on aluminum. irritating to the eyes and upper respiratory tract. Conclusion: Remember, your lungs are a vital organ for sustaining good health. Utilize these safety guidelines for MIG and TIG welding operations. Work Site Review Work-Site Hazards and Safety Suggestions: Personnel Safety Violations:	ners, and ases. Para is well elded. Para passed place. Contact equences are sociated area of the contact punds are peripheral the gum, with heme els. Ozone is ions.
Material Safety Data Sheets Reviewed:	nemical)
Employee Signatures: (My signature attests and verifies my understanding of and agreement to comply with, all company safety	,
and regulations, and that I have not suffered, experienced, or sustained any recent job-related injury or	illness.)

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.