The Importance of Safety and the Impact of OSHA in the Workplace
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Introduction

• Safety is very important while welding. When sufficient measures are not taken while welding the welders can encounter such dangers as: electric shock, overexposure to radiation, fumes and gases, fire, or explosion, any of which can result in fatal injuries.
• To avoid injuries welders should always have the correct protective clothing for the welding procedure and protective welding helmet/eyewear to protect them from UV radiation. Proper ventilation while welding and equipment maintenance are also very important to avoid injuries while welding.

PPE

• Most workplace injuries while welding are caused when workers are not wearing personal protective equipment (PPE) or they are wearing the incorrect PPE.
• PPE that should be worn in most welding procedures are:
  • Welding Helmet to protect from radiation, sparks, and intense light.
  • Respirators to protect from fumes and oxides.
  • Fire/Flame Resistant Clothing to protect from heat, fires, and burns.
  • Ear Muffs/Ear Plugs to protect from noise or splatter entering the ear.
  • Insulated Gloves to protect from heat, burns, and fires.
  • Rubber-Soled Boots to protect from electric shock, heat, burns, and fires.

Impact of OSHA

• “OSHA” stands for Occupational Safety and Health Administration of the United States of Labor, formed by the Occupational Safety and Health Act of 1970.
• OSHA was implemented by the federal government because of the number of injuries, illnesses, accidents, and fatalities that were occurring in the workplace and to establish a safety standard for all workplaces to better protect their workers.

OSHA Violations and Penalties

• When employers are found to be in violation of OSHA standards, they are issued citations. Many of these violations result in penalties.
• OSHA penalties can reach up to $70,000, depending on the type of violation and how likely the violation is to result in serious harm to employees.
• The classes of OSHA penalties include, Willful, Repeated, Serious, and Failure to Abate.