

22 POINTS TO WELDING SAFETY EXAM SUCCESS

- 1) When picking up hot metal always wear gloves but pick the metal up with pliers.
- 2) Leather is the best protector against sparks, UV (ultraviolet) radiation, and infrared radiation
- 3) Dark colored clothing is the best for welding because it absorbs light.
- 4) Man-made or synthetic clothing should NOT be worn because it may melt and stick to your skin if heat is applied to it.
- 5) When welding 3 types of radiation are produced:
 - a. UV (ultraviolet) radiation – the kind that gives you a sun burn and causes swelling of eye membrane and blistering of skin
 - b. Infrared radiation- also known as heat rays and will cause permanent damage
 - c. Visible light- the kind you can see
 1. will cause temporary spots in your eyes if they are not protected
- 6) Infrared radiation actually does the heating and melting of the metal and rod.
- 7) An “ARC FLASH” is when a flash of U.V., Infrared, and visible light hits your UNPROTECTED eyes
- 8) How severe / strong or the intensity of an ARC FLASH depends on two things:
 - a. Distance from the ARC (welding light)
 - b. Length of time from the ARC
- 9) Very Strong VISIBLE LIGHT causes an “ARC FLASH”
- 10) The filter plate or dark glass in front of the welding helmet comes in many different darkness’s or shades. Generally the LARGER the number the DARKER the shade. (eg) A shade of 12 or 14 is much darker than a shade of 4.
- 11) To protect the FILTER LANS from damage a COVER LENS is placed in front of it. It is basically a clear plate of glass.
- 12) Two types of FLITER LENSES are
 - a. Absorbing and
 - b. Reflecting
- 13) If you breathe in fumes after welding “ZINC COATED” (galvanized) metal, you may get something called “BRASS CHILLS.
- 14) If you get BRASS CHILLS you will feel cold, have a headache and may feel sick to your stomach. It is just temporary.
- 15) Turn on a ventilation system to suck out possible fumes while welding.
- 16) An “A” class fire is one from burning paper, and wood
A “B” class fire is one from burning oil, gas or grease
A “C” class fire is one from electrical wires or equipment.
- 17) Types of extinguishers include:
 - a. Water
 - b. CO2 (carbon dioxide)
 - c. Dry chemical
- 18) Extinguishers are red and are located near entrances.
- 19) A safe shop is the following:
 - a. a well lit one
 - b. an clean or tidy one
 - c. an orderly one
- 20) Containers that have had a flammable gas or liquid should not be welded because of possible explosion.
(eg) a propane tank.
- 22) Containers that may have compress gas should not be welded because of possible explosion.
(eg) carbon dioxide filled tank