

**Hot Work Safety Precaution**

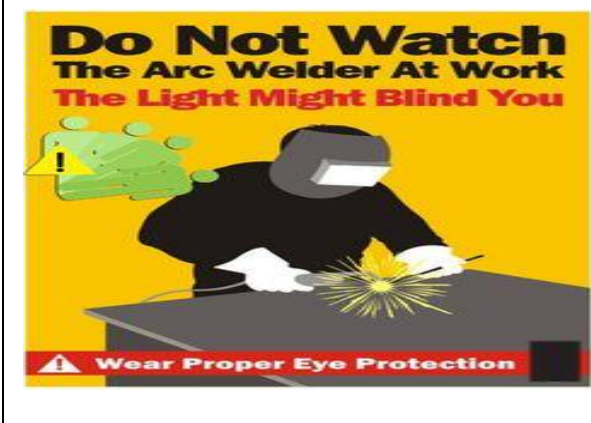
# HOT WORK FIRE SAFETY

**WHAT IS IT?** Hot work is any process involving flame, spark, or heat production. Typically, this includes: cutting and burning, welding, soldering, heat treating, grinding or chipping, drilling or tapping, and torch-applied roofing.

NFPA 51B covers hot work safety. Take a look: [www.nfpa.org/51B](http://www.nfpa.org/51B)

**WHO NEEDS TO KNOW?**

- Construction Contractors 
- Welders 
- Sheet-Metal Workers 
- Plumbers 
- Pipe-Fitters 
- Iron Workers 
- Utility Workers 
- Electrical Workers 
- Roofers 
- AHJ's / Fire Service 



**WHY IS IT IMPORTANT?**

**4,630** Structure Fires Involve Hot Work Per Year

**43%** Of Fires Occur In or On Homes



**15** Civilian deaths are caused per year from these fires



**198** Civilian injuries are caused per year from these fires



**\$355M** In direct property damage results from these fires per year.



- Welding Torches (36%)
- Cutting Torches (22%)
- Soldering Equipment (17%)
- Burners (11%)
- Heat Treating Equipment (13%)
- Other (1%)

	Home Fires	Non-Home Incidents
Peak Areas	Wall assemblies, Bathrooms, Kitchens	Exterior roof surfaces, Processing/manufacturing areas
First Ignited	Structural members, Insulation, Exterior Wall Coverings or finish	Flammable/combustible liquids, gases, and Exterior roof coverings or finish



## WELDING SAFETY IN THE WORKPLACE



- ▶ Obtain any required "Hot Work" permits.
- ▶ Remove any flammable substances from the work area before starting a job.
- ▶ Use a combustible gas indicator or sensor to detect any air borne flammable gases.
- ▶ When working on a flammable flooring, such as wood, wet down or cover with a flame resistant shield.
- ▶ Cover flammables with a fire proof tarp when the objects cannot be removed.
- ▶ Smoke only in designated area.
- ▶ Keep your work area free from trash.
- ▶ Keep a fire extinguisher handy. Frequently check to make sure the extinguishers are charged and in operational condition.
- ▶ Always - PAY ATTENTION.

## GRINDING SAFETY

- ✓ Trained person only can use grinder.
- ✓ Always wear safety glasses and a face shield during operation.
- ✓ Wear close-fitting gloves and a coat or heavy shirt for protection.
- ✓ Change damaged disk.
- ✓ Never remove guard.
- ✓ Replace grinder if damaged.

