



## **DESIGNATED HOT WORK AREAS**

### **INTRODUCTION**

Hot Work is usually defined as any open flame, spark or heat producing activity and is typically associated with cutting, welding, grinding and brazing operations.

### **DESIGNATED HOT WORK AREAS**

A designated hot work area is a permanent location designed for hot work. These areas do not require a daily permit to perform hot work.

#### **A designated hot work area shall be:**

- Non-combustible, fire-resistive construction, essentially free of combustibles and flammables
- The working surface for the use of the soldering and brazing activities should be of a non combustible material (i.e. Laboratory bench top, Duraboard, tile, etc)
- Suitably segregated from adjacent areas
- Equipped with fire extinguisher(s)
- Equipped with a heat detector rather than a smoke detector
- Equipped with mechanical ventilation to control smoke and fumes
- Inspected and approved by Facility Management and/or EHS

### **PROHIBITED HOT WORK AREAS/ACTIVITIES**

Hot work may not be performed under the following circumstances:

- In areas not authorized by Facility Management and/or EH&S
- When the buildings with fire safety systems are impaired;
- In the presence of explosive atmospheres (mixtures of flammable gases, vapors, liquids or dusts in air);
- In the immediate area of combustible materials

### **INSPECT THE FOLLOWING/OPERATIONS PRIOR TO USE:**

- All combustible materials, papers, notebooks and chemicals should be removed from the surrounding (35 foot clearance).
- Inspect the oxy-acetylene hoses for holes, pinched points, cracks, or any other defects and ensure that the hoses fits securely on the gas valve and the burner/torch.
- Hoses having any defects must be replaced before using.
- Loose clothing, long hairs or dangling jewelries should be tied at the time of using the burner.
- All other shop/lab personnel should be notified that the burner/torch will be in use.
- The open burner/torch should not be unattended.
- Always shut off the gas supply when done.



- If the oxy-acetylene is not going to be used for an extended period of time, remove regulators and secure cylinders with protective cylinder caps if equipped.