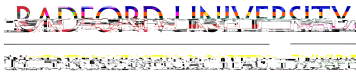


Environmental Health & Safety Programs

Title: Hot Work Program	Document No.: OCS-401
	Revision No.: 01 Date: April 27, 2017
	Approved By: Avraham Boruchowitz, CSP, CHMM

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- Contractors working on new construction or renovating unoccupied University facilities shall follow their own hot work policies and procedures, which shall fulfill all regulatory requirements.

Environmental Health and Safety (EHS)

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The fire watch will be maintained for at least a half hour after completion of welding or cutting operations to detect and extinguish possible smoldering fires.

Where combustible materials such as paper clippings, wood shavings, or textile fibers are on the floor, the floor will be swept clean for a radius of 35 feet. Combustible floors will be kept wet, covered with damp sand, or protected by fire-resistant shields. Where floors have been wet down, personnel operating arc welding or cutting equipment will be protected from possible shock.

Cutting or welding will not be permitted in the following situations:

- In areas not authorized by management, such as occupied office space.
- In sprinkled buildings, while such protection is impaired.
- In the presence of explosive or potentially explosive atmospheres.
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7.0 Welding or Cutting Containers

1. Welding, cutting, or other hot work will not be performed on used drums, barrels, tanks or other containers until they have been cleaned thoroughly to make certain there are no flammable or toxic materials present. Any pipe lines or connections to the drum or vessel will be disconnected or blanked.
2. All hollow spaces, cavities or containers will be vented to permit the escape of air or gases before preheating, cutting or welding. Purging with inert gas is recommended.

8.0 Confined Spaces

Appropriate mechanical ventilation will be provided for welders in a confined space.

When welding or cutting is performed in a confined space, gas cylinders and welding machines will be left on the outside. Before operations are started, heavy portable equipment mounted on wheels will be securely blocked to prevent accidental movement

Where a welder must enter a confined space, means will be provided for quickly removing the worker in case of emergency. An attendant will be stationed outside to observe the welder at all times and be capable of putting rescue operations into effect.

After welding operations are completed, the welder will mark the hot metal or provide some other means of warning other workers.

When arc welding is y7aT /CS1 cs 0.16_29(n)-4(10(t)-2(h 0.169 0.14u(acce1)p2(ppr)3(opr3(e)4(.0 12 72.72 29

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- Welders will place welding cable and other equipment so that it is clear of passageways, ladders, and stairways.

9.2 Eye Protection

- Helmets or hand shields will be used during all arc welding or arc cutting operations. Helpers or attendants will be provided with proper eye protection.
- Goggles or other suitable eye protection will be used during all gas welding or oxygen cutting operations. Spectacles without side shields and with suitable filter lenses can be used for gas welding operations on light work, torch brazing or for inspection.
- All operators and attendants of resistance welding or resistance brazing equipment will use transparent face shields or goggles to protect their faces or eyes.
- Eye protection will meet the following specifications:
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Mercury - In confined spaces or indoors, welding or cutting operations involving metals coated with mercury-bearing materials, including paint, must be done using local exhaust ventilation unless atmospheric tests show that employee exposure is within acceptable concentrations. Such operations, when done outdoors, must be done using respirators.

Cleaning compounds - Because of their possible toxicity or flammability, appropriate precautions such as manufacturer s instructions will be followed. Operations involving chlorinated hydrocarbons will be located so that vapors from these operations will not be drawn into the atmosphere surrounding the welding operation. In addition, trichloroethylene and perchlorethylene should be kept out of atmospheres penetrated by the ultraviolet radiation of gas-shielded welding operations.

Stainless Steels - Oxygen cutting, using either a chemical flux or iron powder or gas-shielded arc cutting of stainless steel, will be done using mechanical ventilation adequate to remove the fumes.

10.5 First-aid equipment

First-aid equipment will be available at all times. All injuries will be reported as soon as possible for medical attention. First aid will be rendered until medical attention can be provided.

11.0 Employee Training

11.1 Initial Training

EHS will provide initial and refresher training to all employees that perform hot work activities. The supervisor is responsible for ensuring that all new employees receive training before conducting a task that meets the criteria of Hot Work operations as outlined in this program.

The initial training should include the following topics:

- Written program
- Hot work procedures, including how to obtain a permit
- Proper equipment operation
- Handling and storage of welding materials
- Compressed gas cylinder safety
- Fire watch
- Fire precautions

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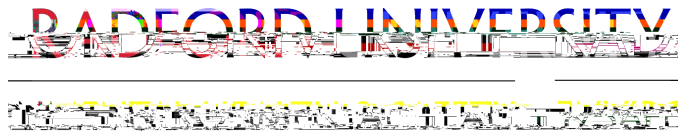
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HOT WORK PERMIT

GENERAL INFORMATION		
Date:	Permit begins:	Permit ends:
Location of work:		
Equipment to be used:		
Person performing hot work:		
Description of work:		
FIRE SAFETY PRECAUTIONS CHECKLIST		

Hot work equipment in good repair.		Exposed construction is noncombustible or covered.	
Combustible materials within 35 feet removed or protected			