HOT WORK PROGRAM

DEPARTMENT OF SAFETY

CREATED MAY 2008
Reviewed June 2010
Revised August 2011
Reviewed May 2012
Revised May 2015
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Purpose
To provide written procedures to prevent the outbreak of fire, fire alarm activations, smoke and odor migration in buildings resulting from any temporary operation involving the use of open flames or which produces heat and/or sparks. This includes, but is not limited to: brazing, grinding, cutting, torch soldering, thawing pipes, torch applied roofing and welding.

Application
This procedure applies to work performed by any Texas A&M University-Commerce employee, student and contractor performing work in existing buildings, new construction in existing buildings or new construction attached to existing buildings. When hot work is performed outdoors, necessary precautions should be taken to ensure combustible materials have been cleared and the risk of fire has been eliminated. This procedure does not apply to new construction where there is no attachment to existing buildings or to areas that are specifically designed and equipped for such operations, i.e. maintenance shop areas and designed welding areas.

References

Definitions

**Hot Work**
Any operation producing flames, sparks or heat including cutting, welding, brazing, grinding, sawing, torch soldering, thawing frozen pipes, applying roof covering etc.

**Hot Work Permit**
A special permit, which authorizes “Hot Work” activities at a specific location and time. The permit will be properly filled out, displayed on site and returned to the employee supervisor when the hot work is complete. Permits contain a checklist to be completed prior to commencing hot work activities and also the conclusion of the hot work.

**Fire Watch**
A trained individual stationed in the hot work area who monitors the work area for the beginning of potential, unwanted fires both during and after hot work. Individuals must be trained and
familiar with the operation of portable fire extinguishers and methods to activate building fire alarm systems.

**Procedures**

1. Hot work should not be performed if the work can be avoided or performed in a safer manner. When practical, objects to be welded, cut or heated should be moved to a designated safe location, i.e. maintenance shops.
2. If hot work must be performed, a Hot Work Permit must be completed.
3. All precautions on the Hot Work Permit must be met prior to any work commencing. The supervisor or the employee performing the hot work will complete the permit.
4. The Hot Work Permit is only good for the date specified on the permit.
5. A Hot Work Permit must be displayed at the work site during all hot work.
6. All building occupants must be suitably protected against hazards generated by the work. i.e. heat, sparks, fumes, welding rays, etc.
7. Before hot work begins:
   - An appropriate fire extinguisher must be available and operable.
   - Flammable and ignitable materials and debris must be moved at least 35 feet from the hot work area or covered and protected from the hot work by fire resistant material.
   - Explosives, oxygen acetylene tanks, flammable liquids, compress gas cylinders or stored fuel must be moved at least 50 feet from the hot work area or covered and protected from the hot work by fire resistant material.
   - Smoke and fire detectors in the immediate area of the hot work must be temporarily disabled until the hot work is completed. This can only be accomplished by contacting the Safety Coordinator at (468-3129).
   - Adequate ventilation is being used (especially when cutting or welding material with painted or metal coated surfaces). For questions or assistance, on ventilation issues, contact the Physical Plant at (886-5761)
   - Building occupants have been protected or isolated from the hot work area. If work impacts building occupants, the work must be coordinated with the building proctor.
   - Cracks or holes in floors, walls, and ceiling (including ductwork) are properly covered or plugged.
   - Hot work equipment is operable and in good repair.
   - Drums, barrels and tanks have been cleaned and purged of flammables and toxics, all tank feeds are closed and the tank vented.
   - A fire watch is implemented if conditions warrant. If no fire hazards or combustible exposures are present a fire watch is not required.
   - Workers and Fire Watch personnel are trained in the use of fire extinguishing equipment and how to activate the fire alarm system.
8. When hot work is complete:
   - The work area and any potentially affected surrounding areas are inspected for fire, fire damage or the potential for fire for a minimum of:
     - Constant time period of 1 hour following completion of the hot work; and
3 hours of monitoring.
• Smoke / fire alarms that were disabled because of hot work are reactivated by contacting the Safety Coordinator.
• Hot work permit is closed out
• Completed permit is returned to workers supervisor who then submits the completed permit to be placed in hot work permit file at each location.

RESPONSIBILITIES

Management
• It is the responsibility of management to insure that this policy is implemented in those areas under their jurisdiction where applicable.

Environmental Health and Safety
• Develop written Hot Work program and revise the program as necessary
• Assist with Hot Work procedure training for supervisors
• Periodically audit operations, documentation and training

Safety officers
• Be thoroughly familiar with the hot work procedures
• Implement the hot work program in your areas

Supervisors including Faculty and Instructors
• Be thoroughly familiar with the Hot Work procedures
• Identify employees who may perform hot work as defined in this procedure
• Provide Hot Work training to employees who perform hot work operations
• Maintain records of employee training
• Provide Hot Work Permits
• Collect and complete hot work permits to be filed
• Ensure compliance with procedures by employees

Employees
• Be thoroughly familiar with Hot Work procedures
• Follow all Hot Work procedures
• Complete Hot Work Permits
• Complete required training program

Students
• Be thoroughly familiar with Hot Work procedures
Hot Work Permit

See Safety Office form RMS014