



## **CITY OF MANTECA - FIRE DEPARTMENT**

### **FIRE PREVENTION BUREAU**

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## **CUTTING WELDING PERMIT REQUIREMENTS**

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**105.6.12 CUTTING AND WELDING.** An operational permit is required to conduct cutting or welding operations within the jurisdiction.

**2403.2.7 Welding warning signs.** Welding, cutting and similar spark-producing operations shall not be conducted in or adjacent to flammable vapor areas or dipping or coating operations unless precautions have been taken to provide safety. Conspicuous signs with the following warning shall be posted in the vicinity of flammable vapor areas, dipping operations and paint storage rooms.

**NO WELDING  
THE USE OF WELDING OR CUTTING  
EQUIPMENT IN OR NEAR THIS AREA  
IS DANGEROUS BECAUSE OF FIRE  
AND EXPLOSION HAZARDS. WELDING  
AND CUTTING SHALL BE DONE ONLY  
UNDER THE SUPERVISION OF THE  
PERSON IN CHARGE.**

**3501.3 Restricted areas.** Hot work shall only be conducted in areas designed or authorized for that purpose by the personnel responsible for a Hot Work Program. Hot work shall not be conducted in the following areas unless approval has been obtained from the fire code official:

1. Areas where the sprinkler system is impaired.
2. Areas where there exists the potential of an explosive atmosphere, such as locations where flammable gases, liquids or vapors are present.
3. Areas with readily ignitable materials, such as storage of large quantities of bulk sulfur, baled paper, cotton, lint, dust or loose combustible materials.
4. On board shops at dock or ships under construction or repair.
5. At other locations as specified by the fire code official.

**3503.4 Qualifications of operators.** A permit for hot work operations shall not be issued unless the individuals in charge of performing such operations are capable of performing such operations safely. Demonstration of a working knowledge of the provisions of this chapter shall constitute acceptable evidence of compliance with this requirement.

**3503.5 Records.** The individual responsible for the hot work area shall maintain “pre-work check” reports in accordance with Section 3504.3.1. Such reports shall be maintained on the premises for not less than 48 hours after work is complete.

**3503.6 Signage.** Visible hazard identifications signs shall be provided where required by Ch. 50. Where the hot work area is accessible to persons other than the operator of the hot work equipment, conspicuous signs shall be posted to warn others before they enter the hot work area. Such signs shall display the following warning:

**CAUTION**

**HOT WORK IN PROCESS**

**STAY CLEAR**

**3404.2. Sources of heat.** Open flame, cutting, welding or heating devices blow torches or highly flammable materials including, but not limited to, inner tubes are prohibited within 40 feet of a waste tire pile.

**3504.1.1. Combustibles.** Hot work area is clear of combustibles.

**3504.1.2. Opening.** There are no openings, holes, or cracks in walls, floors or ceilings within the hot work area.

**3504.1.5. Partitions.** Partitions are noncombustible.

**3504.1.3. Housekeeping.** Fixed hot works areas have noncombustible floors and are kept clean.

**3504.1.7. Precautions in hot work.** Hot work shall not be performed on containers or equipment that contain or have contained flammable liquids, gases or solids until the containers and equipment have been thoroughly cleaned, inerted or purged; except that “hot tapping” shall be allowed on tanks and pipe lines where such work is to be conducted by approved personnel. Hot work on flammable and combustible liquid storage tanks shall be conducted in accordance with Section 3510.

**3504.2. Fire watch.** Fire watch is provided during hot work operations and continues for a minimum of 30 minutes after the conclusion of work.

**3504.2.6. Fire extinguisher.** A 2: A:20-B:C rated fire extinguisher is provided within 30 feet of hot work operation.

**3505.2 Cylinder and container storage, handling and use.** Proper storage, handling and use of compressed gas cylinders, containers and tanks are provided.

**3505.2.1 Cylinders connected for use.** Proper storage and separations of portable oxygen/fuel gas welding equipment located inside of building is provided.

**3505.3 Precaution.** Cylinders, valves, hoses, and other apparatus and fittings containing or using oxygen are clean and maintained.

**3505.8 Tests.** Hoses are free from damage.

**3505.5 Remote locations.** Gas welding and cutting is performed in approved locations.

**3506.1 Electric arc hot work general.** The frame or case of the electric hot work machine is grounded.

**3505.4. Emergency disconnects.** A switch or circuit breaker is provided to disconnect from the supply circuit.

**3506.5 Damaged cable.** Cables are free from damage.

Additional requirements may apply.