



CITY OF MANTECA - FIRE DEPARTMENT

FIRE PREVENTION BUREAU

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HOT WORK OPERATIONAL PERMIT REQUIREMENTS

105.6.24 Hot work Operations. An operational permit is required for hot work including, but not limited to:

1. Public exhibitions and demonstrations where hot work is conducted.
2. Use of portable hot work equipment inside a structure.

Exception: Work that is conducted under a construction permit.

3. Fixed-site hot work equipment, such as welding booths.
4. Hot work conducted within a wildfire risk area.
5. Application of roof coverings with the use of an open-flame device.
6. When approved, the fire code official shall issue a permit to carry out a hot work program. This program allows approved personnel to regulate their facility's hot work operations. The approved personnel shall be trained in the fire safety aspects denoted in this chapter and shall be responsible for issuing permits requiring compliance with the requirements found in Chapter 35. These permits shall be issued only to their employees or hot work operations under their supervision.

DEFINITIONS

Operations including cutting, welding, Thermit-welding, brazing, soldering, grinding, thermal spraying, thawing pipe, installation of torch-applied roof systems or any other similar activity.

3503 General Requirements

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

3504 Fire safety requirements

3504.1.1 Hot work area is clear of combustibles.

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

3504.1.5 Partitions are noncombustible.

35.04.1.3 Fixed hot works areas have noncombustible floors and are kept clean.

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

3504.2.6 A 2-A:20 BC rated fire extinguisher is provided within 30 feet of hot work operation.

3505 Gas Welding and Cutting

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

3505.2.1 Proper storage and separations of portable oxygen/fuel gas welding equipment located inside of building is provided.

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

3505.8 Hoses are free from damage.

3505.5 Gas welding and cutting is performed in approved locations.

3506 Electric Arc Hot Work

3506.1 The frame or case of the electric hot work machine is grounded.

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

3506.5 Cables are free from damage.

3509 Piping Manifolds and Hose Systems for Fuel Gases and Oxygen

3509.2 Piping is protected against physical damage.

3509.3 Piping systems are marked with the content name, content color and direction of flow at 20 foot intervals and at each valve change of direction and at wall, floor, or ceiling penetrations.

1. Station outlets are marked with their use.
2. Signs are posted indicating shut off Valves.

3509.5 Signs are posted indicating oxygen manifolds.

3509.6 Hose connections are securely fastened.

3509.7 Hoses are free from damage.

2403.2.7 Welding warning signs

2403.2.7 Welding, cutting and similar spark-producing operations shall not be conducted in or adjacent to flammable vapor ares 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.**

Additional requirements may apply.