Managing Hot Work Using FM Global’s Hot Work Permit System

Glossary
<table>
<thead>
<tr>
<th><strong>Additional required precautions:</strong></th>
<th>Additional precautions to be taken for a respective hot work operation, for example, when hot work is conducted in a high-risk area and precautions beyond those listed on the permit may be warranted.</th>
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<tbody>
<tr>
<td><strong>Alternative cold work method:</strong></td>
<td>Safer method of performing work that doesn’t pose a fire or explosion hazard.</td>
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<td><strong>Combustible construction:</strong></td>
<td>Walls, ceilings or roofs that contain wood or not FM Approved plastic materials; noncombustible materials include metal, concrete, or FM Approved plastic materials or roofing assemblies.</td>
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<td><strong>Fire monitoring:</strong></td>
<td>Methods such as automatic smoke detection system, video cameras, presence of trained operators and personnel to patrol area following the completion of the post work fire watch.</td>
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<td><strong>Fire watch:</strong></td>
<td>Continuous supervision of the hot work area and the person performing the work to ensure firesafe conditions are maintained during work and post work.</td>
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<td><strong>FM Approved:</strong></td>
<td>Products and services that have satisfied the criteria for Approval by FM Approvals (Refer to FM Global’s Approval Guide for a complete list of products and services that are FM Approved.)</td>
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<td><strong>Hot work:</strong></td>
<td>Any temporary or routine work (operation) involving open-flame, producing hot surfaces, and/or generating sparks or molten material of sufficient energy to ignite combustible, ignitable, and/or flammable materials.</td>
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<td><strong>Hot work area:</strong></td>
<td>The space surrounding a hot work site defined by the horizontal and vertical reach of hot work ignition sources. Within this area, combustible, ignitable and flammable materials are temporary removed or isolated.</td>
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</table>
**Glossary**

**Hot work designated area:** An area of a facility in which hot work can safely conducted without a Hot Work Permit if combustible, ignitable or flammable materials remain controlled and safeguarded.

**Hot work high-risk area:** An area of a facility in which hot work can be conducted with a Hot Work Permit but additional required precautions may be necessary given the increased level of fire or explosion risk.

**Hot Work Permit:** A two-part form that outlines the process for successfully managing all hot work at a facility.

**LEL reading(s):** Lower explosive limit (monitoring for flammable gas/vapors).

**Low-energy hot work:** Any temporary or routine work capable of producing mechanical sparks, electrical or electrostatic sparks, or hot surfaces of sufficient energy to ignite ignition-sensitive materials such as flammable gas/vapor or combustible dust in suspension.

**Permit authorizer:** Person who decides if there’s a safer way to conduct the operation and, if hot work is unavoidable, implements the Hot Work Permit system for the operation.

**Thermally conductive materials:** Metal piping, steel structural members, etc. that pass through a building assembly (wall, ceiling, or roof) that when hot work is completed on, may conduct heat into and through the assembly, possibly igniting materials on the other side.