



Risk Improvement Guide

Hot Works

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What is Hot Work?

Between 2014 and 2018, \$484M of direct property damage was caused by hot work fires. These fires also resulted in 22 civilian deaths and 171 civilian injuries.¹

Activities involving spark, heat or flame production are considered hot works, as they are ignition sources for fires and explosions.

Common examples of hot work include:

- Welding
- Soldering
- Brazing
- Hot riveting
- Grinding
- Pipe thawing

To minimise the chance of fires starting from hot works, ensure works are conducted in a designated work area, which is free of ignitable material to propagate a fire.

If hot works must be conducted in an undesignated hot works area, complete the PRS Hot Work Permit before, during and after to minimise the chances of fire originating from such works.

The PRS Hot Work Permit is a guide only and may not satisfy every underwriter's requirements. Please use the Other Precautions Section to include additional precautions and requirements.

PRS Hot Work Permit

Date: Job Number:

Work location:

Work description:

Work conducted by: Employee ☐ Contractor ☐
Contractor Company Name:

Name of person conducting work:

Name(s) of person(s) conducting fire-watch:

During works:

For 60 Minutes post completion of works:

This permit is valid for 12 hours or 1 shift from
Date: Time: AM/PM

Name and signature of permit authoriser

(I verify the above location has been examined, the relevant qualified persons assigned and precautionary checklists completed prior to authorising this work)

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Precautionary Checklist (Permit authoriser to complete)

- ☐ Automatic sprinkler system operational (pumps operational and control valves open)
- ☐ Manual fire equipment on hand (hose reels, fire extinguishers, fire blankets)
- ☐ Fire detection systems isolated
- ☐ Hot work equipment is in good working order
- ☐ Ignitable material (including ignitable liquids and combustible dusts) removed within 15m of the work area
- ☐ Combustible construction shielded using approved welding pads, blankets and curtains
- ☐ Ventilation and conveying systems shut down
- ☐ Fire-watch designated to continuously monitor work area during and 60-minutes post completion of works
- ☐ Fire-watch trained to deploy manual firefighting equipment
- ☐ Fire-watch trained in the site's Emergency Response Procedures
- ☐ Monitoring of work area upon completion of fire-watch (up to 3 hours of end of firewatch)
In person, CCTV, Security Patrol, etc. Hours Minutes
- ☐ Other precautions:

Additional precautions for works conducted on/in enclosed areas or equipment

- ☐ Equipment isolated and shut-down
- ☐ Purge flammable gasses or vapour
- ☐ Monitor flammable gas/ vapour readings before, during and after works
LEL Reading

References

1. NFPA (2019) Structure fires caused by hot work. Retrieved from <https://www.nfpa.org/-/media/Files/News-and-Research/Fire-statistics-and-reports/US-Fire-Problem/Fire-causes/osHotWork.ashx>, NFPA