Appendix B - University of Iowa Hot Work Permit

HOT WORK PERMIT

STOP!
Avoid hot work when possible! Consider using an alternative cold work method.

This Hot Work Permit is required for any temporary operation involving open flames or producing heat and/or sparks conducted outside a Hot Work Designated Area. This includes, but is not limited to: brazing, cutting, grinding, soldering, torch-applied roofing and welding.

Instructions for Permit Authorizer/Fire Safety Supervisor
1. Specify the precautions to take.
2. Fill out and keep Part 1 during the hot work process.
3. Issue Part 2 to the person doing the job.
4. Keep Part 2 on file for future reference, including signed confirmation that the post-work fire watch and monitoring have been completed.
5. Sign off final check on Part 2.

Part 1

<table>
<thead>
<tr>
<th>Required Precautions</th>
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<tr>
<td>□ The fire pump is in operation and switched to automatic.</td>
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<tr>
<td>□ Control valves to water supply or sprinkler system are open.</td>
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<tr>
<td>□ Extinguishers are in service/operable.</td>
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<tr>
<td>□ Hot work equipment is in good working condition.</td>
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Requirements within 35 ft. (10 m) of hot work:
□ Shield combustible construction using FM Approved welding pads, blankets and curtains.
□ Remove combustibles or shield noncombustible combustibles using FM Approved welding pads, blankets and curtains.
□ Isolate potential sources of flammable gas, ignitable liquid or combustible dust/lit (e.g., shut down equipment).
□ Remove ignitable liquid, combustible dust/lit and combustible residue.
□ Shut down ventilation and conveyance systems.
□ Remove combustibles and consider a second fire watch on opposite side of floor, wall, ceiling or roof when openings exist or thermally conductive materials pass through.
□ Does fire curtain combustible construction exist (with or without concealed spaces), warehousing, or other heavy combustibles? If yes, treat as "Hot Work High-Risk Area" and provide ADDITIONAL REQUIRED PRECAUTIONS below.
□ Is work on a combustible roof? If yes, treat as a "Hot Work High-Risk Area" and provide ADDITIONAL REQUIRED PRECAUTIONS below.

Hot work on in closed equipment, ductwork and piping:
□ Isolate equipment from service.
□ Remove ignitable liquid and purge flammable gas/vapor.
□ Remove combustible dust/or other combustible materials.
□ Is work on equipment with non-removable combustible linings or parts? If yes, treat as a "Hot Work High-Risk Area" and provide ADDITIONAL REQUIRED PRECAUTIONS below.

Fire watch/fire monitoring the hot work area:
□ Perform a continuous fire watch during hot work.
□ Perform a continuous fire watch following hot work completion for 60 minutes.
□ Perform a final check of the area following the fire watch after hot work completion.

ADDITIONAL REQUIRED PRECAUTIONS:
□ "Hot Work High-Risk Area" — perform fire monitoring following fire watch completion for 3 hours.

Contact Risk Management with questions at 319-335-0010 or risk-management@uiowa.edu
WARNING

HOT WORK IN PROGRESS! Watch for fire!

Instructions
Person performing hot work: Record time started and display permit at hot work area. After hot work is completed, record time and leave permit displayed for fire watch.
Fire watch: Watch area during hot work and after work completion. Prior to leaving area, perform final inspection, sign, leave permit displayed and notify Fire Monitor or Permit Authorizer/Fire Safety Supervisor.
Fire Monitor: Monitor area after post-work fire watch completion. Perform final inspection, sign and return to Permit Authorizer/Fire Safety Supervisor.

Part 2

Required Precautions

- The fire pump is in operation and switched to automatic.
- Control valves to water supply for sprinkler system are open.
- Extinguishers are in service/operable.
- Hot work equipment is in good working condition.

- Requirements within 25 ft. (10 m) of hot work:
  - Shield combustible construction using FM Approved welding pads, blankets and curtains.
  - Remove combustibles or shield nonremovable combustibles using FM Approved welding pads, blankets and curtains.
  - Isolate potential sources of flammable gas, ignitable liquid or combustible dust/fume (e.g., shut down equipment).
  - Remove ignitable liquid, combustible dust/fume and combustible residues.
  - Shut down ventilation and conveying systems.
  - Remove combustibles and consider a second fire watch on opposite side of floor, wall, ceiling or roof when openings exist or thermally conductive materials pass through.
  - Does site contain combustible construction (with or without concealed spaces), warehousing, or other heavy combustibles? If yes, treat as "Hot Work High-Risk Area" and provide ADDITIONAL REQUIRED PRECAUTIONS below.
  - Is work on a combustible roof? If yes, treat as a "Hot Work High-Risk Area" and provide ADDITIONAL REQUIRED PRECAUTIONS below.

- Hot work on or in closed equipment, ductwork and piping
  - Isolate equipment from service.
  - Remove ignitable liquid and purge flammable gas/vapor.
  - Remove combustible dust/fume or other combustible materials.
  - If work on or in equipment with removable combustible linings or parts? If yes, treat as a "Hot Work High-Risk Area" and provide ADDITIONAL REQUIRED PRECAUTIONS below.

- Fire watch/fire monitoring the hot work area
  - Perform a continuous fire watch during hot work.
  - Perform a continuous fire watch following hot work completion for 60 minutes.
  - Perform a final checkup of the area following the fire watch after hot work completion.

- "Hot Work High-Risk Area" — perform fire monitoring following fire watch completion for 3 hours.

Contact Risk Management with questions at 319-335-0010 or risk-management@uiowa.edu
WARNING!

HOT WORK IN PROGRESS
Watch for fire!

In case of emergency, call the contacts listed below before attempting to extinguish the fire.

<table>
<thead>
<tr>
<th>Number</th>
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<tr>
<td>UI Campus - 911</td>
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<td>UIHC - 195</td>
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WARNING!