

## Appendix D – Welding Exterior Surfaces

*Exterior operations and maintenance activities are prohibited on windy days (winds greater than 15 miles per hour or the chips and dust are blowing off the plastic sheeting) as determined by the supervisor or project manager in charge of the job.*

Welding on exterior surfaces (e.g., fire escapes) covered with lead coatings or paint shall be conducted as follows:

- Obtain a [Hot Work Permit](#) in accordance with the IU Hot Work Program;
- Provide portable and or mechanical ventilation (e.g., local exhaust) capable of keeping the levels of fumes, dust and gases below action level and exposure limits;
- If welding shall be conducted near air intakes, building ventilation systems shall be modified so that the lead contaminants are not introduced into the building;
- Utilize respiratory protection when engineering controls are not feasible;
- Wear gloves, apron and/or jacket that are made of a material which is an insulator from heat and electricity;
- Wear welders helmet equipped with proper filter plate and cover lenses;
- Place a fire resistant tarp below the work area;
- Cover any combustibles in the path with a fire resistant tarp;
- Provide a fire watch on ground level;
- Provide a Class A fire extinguisher;
- Keep adjacent and surrounding windows closed for the duration of the activity;
- Limit access through the work area to workers utilizing barricade tape around the area;
- Mist the work area using clean water;
- Use a putty knife or scraper to scrape loose paint flakes and deteriorated subsurfaces;
- Wash immediate area and tools with a detergent/water solution;
- Rinse the area with clean water;
- Gently roll drop cloth inward from the outside edges to the center;
- Dispose of drop cloth, personal protective equipment and used towels into a plastic bag labeled “Lead Contaminated Waste”;
- Wash hands and face thoroughly.
- All work areas shall be visually inspected after clean-up procedures to ensure that no visible dust or debris is left in the work area;
- Dispose of all plastic bags inside drums provided at a designated location; and
- Contact IUEHS for the respective campus for [disposal](#) as needed.