

University of Tennessee Knoxville

Job Hazard Analysis and Personal Protective Equipment Assessment

Instructions for Supervisors: Please review all applicable Job Hazard Analysis forms with your employee. The forms are categorized by job task.

Hazard Analysis:

Basic Laboratory Safety

| Task | Hazard | Cause | Prevention |
|-------------|------------------|---|--|
| General Use | Inhalation | Fumes, vapors and gases generated during use | Properly ventilate work area, use fume hood when possible |
| | Burns | Hot surface caused by chemical reaction, acids and corrosives | Situational awareness, use appropriate PPE to prevent bodily contact. |
| | Electrical Shock | Improper operation & maintenance | Manufacturer's instructions strictly followed, replace worn parts and deteriorated service cords |
| | Cuts | Broken pipettes and flasks caused by chemical reaction or dropping. | Situation awareness, use appropriate PPE. |
| | Puncture | Needle stick caused by improper use and/or disposal. | Situation awareness, use appropriate PPE. |

NOTE: When handling and working with hazardous chemicals, reagents, or bio hazardous material, it is important to wear appropriate personal protective equipment and follow proper protocols pertaining to the specific hazardous item being handled. Lab technicians also need to know where and how the chemicals will be stored, as well as where and how they will be disposed of. To ensure that this information is available, a standard operating procedure (SOP) should exist for each process or analysis carried out in the laboratory.

PPE Required:

- Gloves disposable Respirators (optional, if appropriate)
- Lab coat
- Slip resistant shoes
- Safety glasses, goggles and face shield

This document serves as the Personal Protective Equipment (PPE) Certification document required to satisfy the federal requirements of the Occupational Safety and Health Administration (OSHA) Standard, 29 CFR 1910.132 Subpart I- Personal Protective Equipment. This certifies that a hazard assessment of workplace hazards has been performed. Signatures for the certification are on file in the Environmental Health and Safety Department office. For questions and more information about this document, please contact EHS at 974-5084 or safety @utk.edu.

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