RESPIRATORY PROTECTION REVIEW

PPD Monthly Shop Meeting

University of Vermont
Physical Plant Department
Training & Compliance Office
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The information provided in the following presentation is specific to the UVM Respiratory Protection Plan and supplements the computer based training on respiratory protection, which has recently been assigned to PPD employees enrolled in the respiratory protection program.
A link to UVM Respiratory Protection Plan (developed by UVM Risk Management) can be found on the TCO web page and at the following link:

http://www.uvm.edu/safety/general/respiratory-protection-program
KEY POINTS to UVM’s Respiratory Protection Plan:

1. Managers and Supervisors should identify hazardous materials/conditions that have the potential for airborne exposures to employees. Safety Data Sheets can be helpful in determining if and what type of respirator is needed. Section 8 of the SDS will address the need for respirators.

2. Prior to utilizing a respirator, the following must be completed: medical approval must be granted, employee training and employee fit testing of the specific respirator being issued to the employee.

3. PPD employees must contact the Training & Compliance Office to initiate the respirator use process noted above.
Example Section 8 of Safety Data Sheet for Lead

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>0.05 mg/m³</td>
<td>0.05 mg/m³</td>
<td>0.05 mg/m³</td>
</tr>
</tbody>
</table>

**NOTE:** OEWs for individual jurisdictions may differ from those given above. Check with local authorities for the applicable OEWs in your jurisdiction.

ACGIH - American Conference of Governmental Industrial Hygienists; OSHA - Occupational Safety and Health Administration; NIOSH - National Institute for Occupational Safety and Health. TLV - Threshold Limit Value, PEL - Permissible Exposure Limit, REL - Recommended Exposure Limit.

**NOTE:** The selection of the necessary level of engineering controls and personal protective equipment will vary depending upon the conditions of use and the potential for exposure. The following are therefore only general guidelines that may not fit all circumstances. Control measures to consider include:

- **Ventilation:** Use adequate local or general ventilation to maintain the concentration of lead fumes in the working environment below recommended occupational exposure limits. Supply sufficient replacement air to make up for air removed by the exhaust system. Local exhaust is recommended for melting, casting, welding, grinding, flame cutting or burning, and use of lead powders.

- **Protective Clothing:** Gloves and coveralls or other work clothing are recommended to prevent prolonged or repeated direct skin contact when lead is processed. Appropriate eye protection should be worn where fume or dust is generated. Where hot or molten metal is handled, heat resistant gloves, goggles or face shield, and clothing to protect from radiant heat and hot metal splash should be worn. Safety type boots are recommended.

- **Respirators:** Where lead dust or fumes are generated and cannot be controlled to within acceptable levels by engineering means, use appropriate NIOSH-approved respiratory protection equipment (e.g., A2BF9B Class N, R or P-100 particulate filter cartridge). When exposure levels are obviously high but the actual concentration is unknown, a self-contained breathing apparatus which supplies a positive air pressure within a full face-piece mask should be worn.
ALWAYS REMEMBER:

Respirators are considered as a "last line of defense" in the occupational hierarchy of controls. They are recommended when engineering and administrative controls are not feasible or sufficient to control the hazard, or until these other controls can be put in place.

Thank you

BE SAFE!!!

Contact TCO for Assistance at 6-SAFE