




# 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 screenshot of the TrainingToday software interface. The title bar reads "Respiratory Protection (00:17 / 30:04)" and "EXIT". On the left is a "Menu" with a scrollable list of 21 topics, including "1. Respiratory Protection", "2. Session Objectives", "3. Session Objectives (cont.)", "4. Respirator Use Locations", "5. Inhalation Hazards", "6. Immediately Dangerous to Life or Health (IDLH)", "7. How Respirators Work", "8. When Are Respirators Needed?", "9. Types of Face Pieces", "10. Assigned Protection Factor (APF)", "11. Air-Purifying Respirator (APR)", "12. Half-Face APR", "13. Full-Face APR", "14. Powered Air-Purifying Respirator (PAPR)", "15. Prohibited Uses of APR and PAPR", "16. Atmosphere-Supplying", "17. Dust Mask (Filtering Face Piece)", "18. Escape-Only", "19. Inhalation Hazards and Respirators—Questions?", "20. Respirator Selection", and "21. Respirator Selection (cont.)". The main content area shows a slide titled "Respiratory Protection" with a close-up image of a respirator filter. The BLR logo is visible in the bottom left of the slide, and a copyright notice "© BLR—Business &amp; Legal Resources 1001" is in the bottom right. At the bottom of the software window are volume and play/pause controls.





# UVM'S RESPIRATORY PROTECTION PLAN

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>



Respiratory Protection Program

Physical Plant Department - Training & Compliance Office

UVM Home

Physical Plant Department

Training & Compliance Office

Directions & Contacts

### Training & Compliance Office

The Physical Plant Training & Compliance Office's (TCO) mission is to promote the safety and health of Physical Plant employees and the University community by providing training, outreach, and education; compliance assistance; establishing partnerships; and encouraging continual improvement in the workplace.

The TCO manages the following Safety Programs.

**Learn more:**

-   
Asbestos Management Program
-   
Confined Space Program
-   
Electrical Safety Program
-   
Fall 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

**Teck**

**LEAD METAL  
SAFETY DATA SHEET**

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**SECTION 1. IDENTIFICATION**

**Product Identity:** Lead Metal

**Trade Names and Synonyms:** Lead; Pb; Plumbum; Metallic Lead; Inorganic Lead; ASTM B29; TADANAC Lead, Low-Alpha Lead.

<b>Manufacturer:</b> Teck Metals Ltd. Trail Operations Trail, British Columbia V1R 4L8 Emergency Telephone: 250-364-4214	<b>Supplier:</b> In U.S.: Teck American Metal Sales Incorporated 501 North Riverpoint Blvd, Suite 300 Spokane, WA USA, 99202	<b>Preparer:</b> Teck Metals Ltd. Suite 3300 – 550 Burrard Street Vancouver, British Columbia V6C 0B3
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## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational Exposure Guidelines:

Component	ACGIH TLV	OSHA PEL	NIOSH REL
Lead	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>

NOTE: OEGs for individual jurisdictions may differ from those given above. Check with local authorities for the applicable OEGs 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 well 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 (a 42CFR84 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

