

# Hierarchy of Health and Safety Controls

**Most Effective**



**Least Effective**

<p><b>1) Elimination or Substitution</b></p>	<ul style="list-style-type: none"> <li>• substitute for hazardous material</li> <li>• reduce speed, force, amperage</li> <li>• reduce pressure, temperature</li> <li>• change process to eliminate noise</li> <li>• perform task at ground level</li> <li>• automated material handling</li> </ul>
<p><b>2) Engineering Controls</b></p>	<ul style="list-style-type: none"> <li>• ventilation systems</li> <li>• machine guarding</li> <li>• sound enclosures</li> <li>• circuit breakers</li> <li>• platforms and guard railing</li> <li>• interlocks</li> <li>• lift tables, conveyors, balancers</li> </ul>
<p><b>3) Warnings</b></p>	<ul style="list-style-type: none"> <li>• computer warnings</li> <li>• odor in natural gas</li> <li>• signs</li> <li>• backup alarms</li> <li>• beepers</li> <li>• horns</li> <li>• labels</li> </ul>
<p><b>4) Training and Procedures Administrative Controls</b></p>	<ul style="list-style-type: none"> <li>• safe job procedures</li> <li>• rotation of workers</li> <li>• safety equipment inspections</li> <li>• Hazard Communication Training</li> <li>• Lockout</li> <li>• Confined Space Entry</li> </ul>
<p><b>5) Personal Protective Equipment</b></p>	<ul style="list-style-type: none"> <li>• safety glasses</li> <li>• ear plugs</li> <li>• face shields</li> <li>• safety harnesses and lanyards</li> <li>• back belts</li> </ul>