

General Respirator Protection Training program

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Respiratory Protection

- Why respirator is necessary and how to properly fit, use, and maintain
- Limits and capabilities of respirators
- how to use effectively in emergency situations
- How to inspect, wear, remove, check seals of respirator
- maintenance and storage of respirators
- Recognize medical signs or symptoms that may limit effective use

Respiratory Protection

- Terms
 - P.E.L- permissible exposure limit
 - S.T.E.L-Short Term Exposure limit
 - P.P.M- parts per million
 - mg/cubic meter-milligram per cubic meter
- Found on MSDS.

Respiratory Protection

Terms (continued)

- **IDLH**- Immediately dangerous to life and health- $<19.5\%$ or $>23\%$ Oxygen, **DO NOT ENTER**
- **Asphyxiant**-chemical or physical
- **Vapor Density**- weight of vapor when compared to air. >1 heavier than air

Respiratory Protection

Terms (continued)

- Service Life-period of time that the cartridge or filter element provide protection

Respiratory Protection

- 1. Identify the Hazard
 - A. particulate?
 - B. vapor?
 - C. fume?
 - D. air supply?

Respiratory Protection

- 2. Select the proper respirator
 - A. Full face- provides eye and face protection
 - B. Half face- more comfortable, less protection of eyes

Respiratory Protection

- 3. Select the correct cartridge
 - a. particulate-high efficiency?
 - b. vapors- acid gasses, organic vapor, etc.
 - c. Fume protection

- note: cartridges do not supply breathing air, they filter the air to make it breathable.

Respiratory Protection

- Physical capability
 - a. pulmonary function
 - b. heart problems
 - c. ear problems
- Questionnaire needs to be completed by employee and reviewed by medical personnel

Respiratory Protection

- 5. Fitting and sealing
- facial seal
- mask condition
- testing prior to each use

Respiratory Protection

Cleaning/Storage(personal respirators)

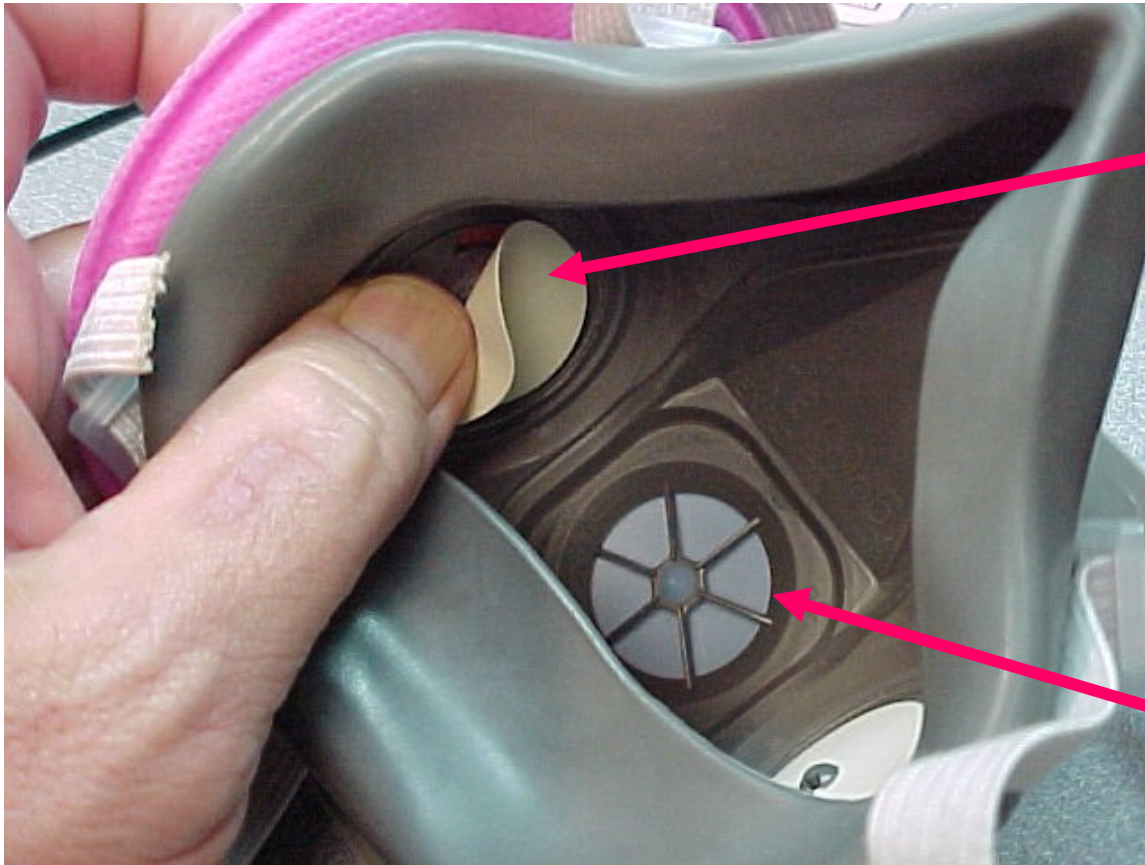
- Remove cartridges
- wash with warm soapy water
- be careful in replacing inhalation and exhalation valves
- Rinse in clean water then dry with cloth or air dry in clean room
- Store in plastic container without distorting mask

Respiratory Inspection



Cartridge
Gasket

Respirator Inspection



**Inhalation valve
and seat:**

1. In Place
2. Pliable
3. Clean seat

Exhalation valve

1. In Place
2. Pliable
3. Clean seat

Respirator Inspection

Straps- all are in place and are not cracked, broken., and pliable

Face-piece: not cracked, broken, and remains flexible



Respirator assembly



Face-piece seal is not cracked, and is clean. Use NIOSH approved cartridges of the same model as respirator

Respiratory Protection

Cleaning/Storage(personal respirators)

- Remove cartridges
- wash with warm soapy water
- Rinse in clean water then rinse in sanitizer
- Dry with cloth or air dry in clean room
- be careful in replacing inhalation and exhalation valves
- Store in plastic container without distorting mask