

OTCO 2019 Jennifer Sco

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OSHA Office of Training and Education



Agenda

- OSHA Requirements
- How respirators work
- Using them correctly
- Safety Rules
- Quiz



29 CFR 1910.134 OSHA says...

- Assign to individuals
- Clean between uses
- Storage
- Inspection
- Monitor the wearer
- Fit
- Fit test



Respiratory Hazards

Toxic Atmospheres

- Gases
- Vapors
- Smoke

Mists

- Fumes
- Dusts

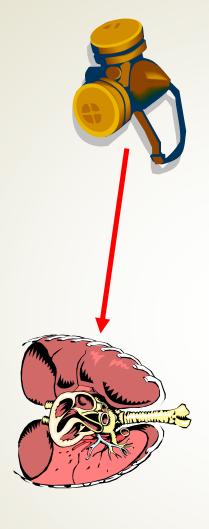
Oxygen Deficiency

<19.5% oxygen



Respirators Work How Dust Masks and Cartridge

- Keep dust and chemicals out of your lungs.
- Air is sucked through the cartridge.
- The cartridge traps the contaminants.





Dust Masks

- Filter the Air
- Discard when dirty or hard to breathe through





Air Purifying Respirators

- Purify the air
- Keep them clean
- Store them right







Supplied Air

- Extensive training
- Physically fit
- For high or unknown concentrations or chemicals





Assigned Protection Factor

1000 to	1000	50	10	(J)	APF	
Full-facepiece self-contained breathing apparatus operated in pressure-demand mode	Full-facepiece supplied air respirator operated in pressure-demand mode.	Full-facepiece respirator with vapor cartridge or filter	Half-facepiece respirator with vapor cartridge or filter	Filtering facepiece (single use dust)	Respirator	







OSHA rules for Voluntary Respirator Use 29 CFR 1910.134 Appendix D







selected and worn. against designated hazards when properly Respirators are an effective method of protection







workers. an additional level of comfort and protection for exposures are below the exposure limit, to provide Respirator use is encouraged, even when





However, if a
respirator is used
improperly or not kept
clean, the respirator
itself can become a
hazard to the worker.







standards. Sometimes, workers may wear exceed the limits set by OSHA respirators to avoid exposures to hazardous substance does not hazards, even if the amount of







respirators for your voluntary use, or if you provide your own respirator, you need to take certain precautions to be sure that the respirator itself does not present a hazard.









1. Read and heed all instructions provided by the manufacturer on use, maintenance, cleaning and care, and warnings regarding the respirators limitations.



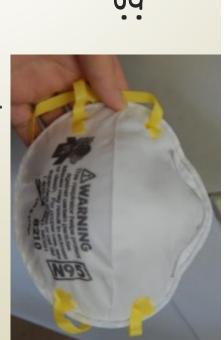


appear on the respirator or respirator packaging. It will the contaminant of concern. NIOSH, the National 2. Choose respirators certified for use to protect against tell you what the respirator is designed for and how respirators. A label or statement of certification should much it will protect you. Department of Health and Human Services, certifies Institute for Occupational Safety and Health of the U.S.









containing contaminants for which your respirator is 3. Do not wear your respirator into atmospheres particles of fumes or smoke not designed to protect against. For example, a protect you against gases, vapors, or very small solid respirator designed to filter dust particles will not







4. Keep track of your respirator so that you do not mistakenly use someone else's respirator.



- Make sure it fits and you are fit
- A doctor can disqualify anyone from wearing a respirator





- Read SDS
- Match the hazard and the cartridge





- Don't use cartridge respirators
- In heavy contamination
- When chemical has no warning properties
- Oxygen deficiency
- Carbon monoxide





- No hair across seal surface
- No beards
- No bangs
- Keep clean-shaven
- hoods Facial hair - OK for positive pressure loose fitting





- Clean, inspect each time worn, then
- Do seal check



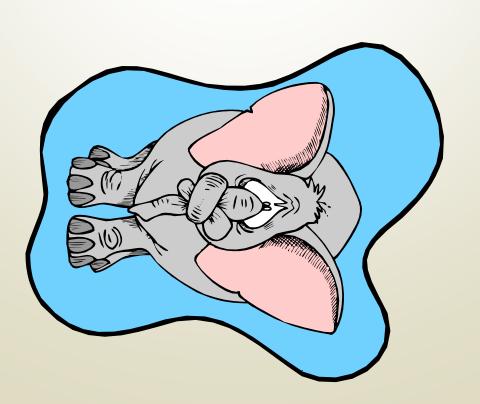
What is he checking?



And this check?



If you smell or taste a contaminant, GET OUT of area and replace filters!





- Inspect
- Keep it clean
- Wash with warm, soapy water
- Dry thoroughly
- Disinfect with non-alcohol wipes







- Store dry and seal in plastic bag
- Store contaminated filters
 SEPARATELY
- Away from
- Dust
- Contamination
- Sunlight
- Temperature extremes
- Excessive moisture
- Chemicals





Remember

- Know the hazard and concentration
- Make sure it fits
- Physical demands on the wearer





My employer can forbid me to wear a respirator.

True or False?

False



A respirator can create a hazard to the wearer.

True or False?

True

dust mask, OSHA requires that I If I want to voluntarily wear a have a medical examination.

True or False?

False



physician can disqualify me from voluntarily wearing a dust mask. After a medical examination, a

True or False?

True

Which respirator provides the most protection?



Half

1.\\Dust

Mast

Mask



· ω Full

Face





breathe through? Which respirator is easiest to



Half

1.\\Dust

Mast

Mask



ω Full Face



4. SCBA

contaminant? have no idea about the air Which respirator should be used if I



Half

1.\\Dust

Mast

Mask



Full Face





chlorine gas cloud? when the air is contaminated with a Which respirator should be used





1.\\Dust

Mast

Half Mask



Full

Face



4. SCBA



concentration? you have a low oxygen Which respirator can be used when



Half

1.\\Dust

Mast

Mask

Full



4. SCBA

Face

from dust only? Which respirators protect you



Half

1.\\Dust

Mast

Mask



· ω Full Face



4. SCBA

Personal Protective Equipment Respiratory Protection

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