

Lesson Plan

Course Title: Respiratory Protection
Time: Approximately 40 minutes
Objective: To inform employees of the requirements of Respiratory Equipment use.

Teaching Aids Required: -Overhead Projector
-Pointer
-Several different types of respiratory protection to show.

Slide #	Information	Time Per Area
1	Respiratory Protection	1:00
2	Introduction to Respiratory Protection What is the purpose of a Respiratory Protection Plan? What are we trying to accomplish? Before you wear a respirator? My Background	5:00
3	Criteria for Respiratory Protection Work area monitoring Appropriateness of protection Employee selection Fit testing	5:00
4	Training Proper use and limits of respiratory protection Why this particular respiratory protection? Respirator handling, and storage	5:00
5	Training Respirator inspection Respirator cleaning	5:00
6	Discussion Please share experiences you have had in this area. Give two examples of where you witnessed actions that put employees at risk. Why are these critical Government rules? Who is ultimately responsible for effective use of respiratory protection?	5:00
7	Start videotape "Respiratory Protection Program"	12:00

Respiratory Protection



Introduction to Respiratory Protection

- What is the purpose of a Respiratory Protection Plan?
- What are we trying to accomplish?
- Before you wear a respirator?
- My Background



What is the purpose of a Respiratory Protection Plan?

- to coordinate the selection, use and maintenance of respiratory equipment.
- to protect employees from exposure to toxic chemical agents
- to allow employees to work safely in hazardous work environments

What are we trying to accomplish?

- reduce employee exposures to occupational dusts, fumes, mists, radionuclides, gases and vapors
- when feasible, exposure to contaminants will be eliminated by engineering controls
- when effective engineering controls are not feasible, use of personal respiratory protective equipment may be required to achieve this goal

Before you wear a respirator

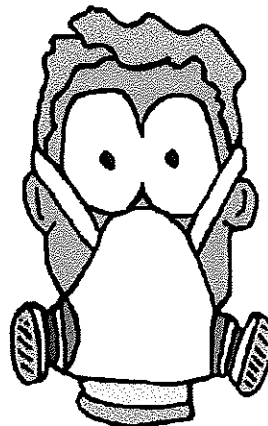
- employees shall undergo a medical examination to determine if they can wear a respirator safely.

My Background

- How long I have worked here
- My role and responsibilities
- How this standard impacts my job
- Personal reasons why this is important

Criteria for Respiratory Protection

- Work area monitoring
- Appropriateness of protection
- Employee selection
- Fit testing



Work area monitoring

- periodic monitoring shall be done to provide a continuing healthful environment for employees
- results of this monitoring will pinpoint areas where respiratory protection is required

Appropriateness of protection

- respirators will be selected based upon the hazards to which the employee is exposed

Employee selection. Employees shall learn how to:

- put on a respirator
- position a respirator on the face
- set strap tension
- conduct a negative and positive pressure fit test
- assess a "comfortable" respirator

How to assess a comfortable respirator

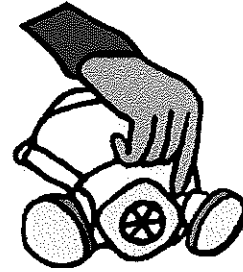
- chin properly placed
- positioning of mask on nose
- strap tension
- fit across nose bridge
- room for safety glasses
- distance from nose to chin
- room to talk
- tendency to slip
- cheeks filled out
- self-observation in mirror
- take adequate time to confirm assessment

Fit testing

- fit testing of the respirator must be carried out in accordance with Appendix C of OSHA Standard 1910.1001

Training

- Proper use and limits of respiratory protection
- Why this particular respiratory protection?
- Respirator handling, and storage



Proper use and limits of respiratory protection

Why this particular respiratory protection?

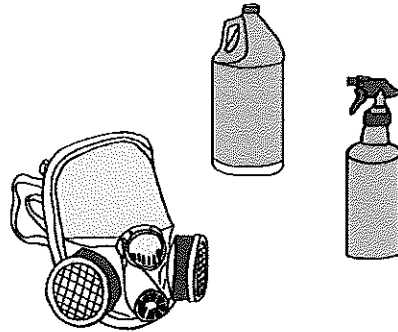
- what is the hazard
- what is the hazards toxicity
- why this respirator is appropriate
- what engineering measures are being taken if any to address this issue

Respirator inspection, handling, cleaning and storage

- how should the employee handle the respirator
- how should the respirator be stored?
- where should the respirator be stored?

Training

- Respirator inspection
- Respirator cleaning



Respirator inspection. The employee will inspect their own respirator daily before and after each use. The employee will look for:

- tightness of connections
- condition of facepiece
- condition of head band
- condition of valves
- condition of connecting tube and canisters
- pliability and deterioration of rubber and elastomer parts

Respirator cleaning

- removing the filters, cartridge or canister
- washing in a cleaning disinfectant or detergent solution
- rinsing
- disinfecting
- rinsing
- air drying

Discussion

- Please share experiences you have had in this area.
- Give two examples of where you witnessed actions that put employees at risk.
- Why are these critical Government rules?
- Who is ultimately responsible for effective use of respiratory protection?



Please share experiences you have had in this area.

- close calls
- mishaps at other facilities
- news reports

Give two examples of where you witnessed actions that put employees at risk.

- not cleaning respirators
- improper use of respirators

Why is this a critical Government rule?

- what makes this important
- what can happen if disregarded
- why is it just good business sense

Who is ultimately responsible for effective use of respiratory protection?

- each person at this facility
- we are all responsible