

# Respiratory Protection



# *29CFR1910.132 PPE - General*



- Determine if hazards are present
- Prepare a written certification
- Select & provide appropriate PPE
- Provide training

# *Acronyms*



PPE

APR

PAPR

SCBA

SCUBA

SAR

N-95

CBRN

IDLH

QLFT

QNFT

PLHCP

PEOSH

# Written Respiratory Protection Program



Whenever:

- Respirators are necessary for Health & Safety
- Required by the employer.
- Parts are required for voluntary use.

# *Program Elements*

*29 CFR 1910.134(c)(1)*

- Hazard Evaluation
- Respirator(s) selection
- Medical evaluation
- Fit testing
- Training
  - Worksite hazards
  - Respiratory protection
  - Proper use
  - Clean, maintain, repair & store

\* Evaluate program annually

# *Respiratory Protection*

## *Program Administrator*



- Arrange for medical clearance
- Coordinate fit-testing
- Coordinate respirator training
- Monitor respirator use, maintenance, storage and disposal
- Maintain records

# *Identify Hazards*



- Define response roles/activities
- Identify hazards for each
- Select the appropriate respirator(s)

Required for fire fighting, Oxygen deficient and IDLH environments





Not approved for fire fighting including overhaul  
May be used in low hazard operations (<PF=10)  
RPP must identify when appropriate



# *Medical Evaluation*

29 CFR 1910.134(e)

- Employee must be medically cleared
- No cost to employee
- Convenient Time and Place
- Confidential
- **before** fit testing

# *Medical Evaluation*



- Performed by a Physician or Licensed Healthcare Professional (PLHCP)
- Questionnaire in Appendix A
- PLHCP knows respirator & conditions
- Has copy of the standard

# *Medical Evaluation*



## Additional Medical Evaluations based on:

- Employee reports medical problems or changes
- Significant physical changes
- PLHCP, supervisor, or program administrator determination
- Program requirements/policy
- Change in worksite conditions

# *Fit Test*



- Before First Use
- Annually
- Changing to a different make, model or size
- Change in employee's physical condition

# *Quantitative Fit Test (QNFT)*

An assessment of the respirator fit by numerically measuring the amount of leakage into the respirator.



# *Qualitative Fit Test (QLFT)*



- Pass/fail fit test
- The individual must respond to test agent.

“may only be used to fit test negative pressure air-purifying respirators that must achieve a fit factor of 100 or less.”

# *Donning the Respirator*



1. Place the respirator over your nose and mouth. Be sure the metal nose clip is on top. With models 8210 or 07048, pre-stretch the straps before wearing.



# *Donning the Respirator*



2. Pull the top strap over your head until it rests on the crown of your head above your ears.

# *Donning the Respirator*



3. Pull the bottom strap over your head until it rests just below your ears.

# *Donning the Respirator*



4. Using both hands starting at the top, mold the metal nose clip around your nose to achieve a secure seal.

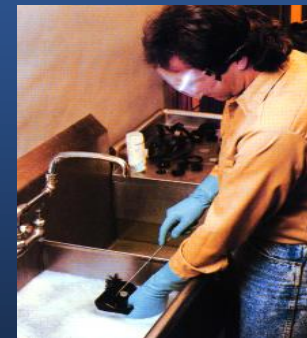
# *Facepiece Seal Protection*



- \* **NO Facial hair**
- \* Skin conditions
- \* Corrective glasses
- \* Other PPE

# *Maintenance and Care*

- Clean, sanitary and in good working order
- Inspect condition
  - Before and after each use
  - **Monthly** for emergency respirators
- Manufacturer's Procedures or Appendix B-2
- Clean and disinfect:
  - After each use
  - Manufacturer instructions



# *Training and Information*

Employers must provide effective training  
ANNUALLY.



# *Training and Information*



Employees will demonstrate knowledge of:

- Why the respirator is necessary
- How improper fit, use, or maintenance can compromise protection
- Limitations and capabilities of the respirator
- General requirements of this standard

# *Training and Information*



Employees will to demonstrate knowledge of:

- Use in emergency situations
- Inspection of then respirator
- Don, doff, seal check, and use
- Maintenance and storage
- Medical signs and symptoms



# *Recordkeeping*



- Current written program
- Medical evaluation (@PLHCP)
- Medical clearance determination form
- Current fit tests
- Inspection, maintenance and repair
- Training records
- Available to employees and PEOSH

# *Program Evaluation*



- Evaluate to ensure effective implementation
- Consult employees for their views on program
- Identify and correct any problems including:
  - Respirator fit
  - Appropriate selection
  - Proper use
  - Proper maintenance
  - Medical evaluation

# *Voluntary Respirator Use*



Employer may allow respirator use if:

- Respiratory protection is NOT required
- Use will not create a hazard
- Employer provides information contained in Appendix D.



Questions

&

Answers