

MODULE OVERVIEW

This module presents information on air-purifying and air-supplying respirators. Each type of respirator is discussed in detail – including component parts, principle of operation, use, maintenance and storage. Students learn specifically about the systems used in their school's shop, and are reminded about the rules regarding PPE use.

OBJECTIVES

When students have completed this module, they will be able to:

- Explain how air-purifying and air-supplying respirators work.
- Identify the components of each system and explain their role.
- Demonstrate how to properly put on and remove a respirator.
- Explain respirator storage and maintenance best practices.
- List the elements of a respiratory protection program and business owners responsibilities.

CLASSROOM (20 min + 15 min)

PowerPoint presentations:

- **Respirators – Part 1 – Air-purifying Respirators.pptx** – 20 min

ATTENTION: slide 6 contains a video clip. Verify in advance that the video clip runs on your computer. You can access the video clip separately at <https://www.youtube.com/watch?v=Tzpz5fko-fg> (watch from 5.07 to 5.50)

- **Respirators – Part 2 – Supplied-air Respirators.pptx** – 15 min

Handouts:

- **Respirators – Part 1 – Handout.pdf**
- **Respirators – Part 2 – Handout.pdf**

LAB (10 min + 10 min)

- **Respirators – Part 1 – Lab Activities - Air-purifying Respirators.pdf** – Demonstrate a user seal check for tight fitting respirators. Demonstrate the use of a PAPR unit. If a PAPR is not available, watch a short video.



- **Respirators – Part 2 – Lab Activities - Supplied-air Respirators.pdf** – Indicate the path of the air provided to fresh-air system respirators. Explain how and when filters are changed. Demonstrate how to calibrate a CO monitor. Demonstrate putting on, taking off, cleaning and storage of the fresh-air system respirators.

HOMEWORK

- **Respirators – Homework.pdf** - watch a video describing qualitative fit test procedures I-CAR disc WKR01-PRCD01-E or OSHA website. Read a Newsletter describing a collision shop owner responsibilities towards workers wearing respirators in the shop.
- **Quiz**

ADDITIONAL RESOURCES

“I want to know more” folder – information on carbon monoxide, cartridge change-out frequency, respiratory protection selection, and hazardous waste management.

