Working Safely With Lead and Lead Compounds Training Quiz

For all questions, mark all answers that apply. Some questions may have more than one answer.

1. Which hazards are associated with lead salts?
    a. Toxic
    b. Explosive
    c. Corrosive
    d. Human carcinogen

2. What PPE should be used at all times while working with lead based compounds?
    a. Gloves
    b. Safety glasses/goggles
    c. Respiratory mask
    d. Lab coat

3. What gloves should you wear to prevent skin contact with lead?
    a. One pair of cotton gloves
    b. One pair of nitrile gloves
    c. One pair of latex gloves
    d. Two pairs of nitrile gloves

4. Lead can enter the body through which exposure route?
    a. Skin
    b. Ingestion
    c. Respiration
    d. Eyes

5. Solutions with lead can be handled where?
    a. Gloveboxes, fume hoods, and open benches
    b. Gloveboxes and fume hoods
    c. In gloveboxes only
    d. In fume hoods only

6. Lead powders can be handled where?
    a. In gloveboxes, fume hoods, and open benches
    b. In gloveboxes and fume hoods
    c. In gloveboxes only
    d. In fume hoods only

7. What actions need to be taken when using lead based materials inside the glovebox?
    a. Users need to wear a pair of nitrile gloves on top of the black rubber gloves
    b. Users have to have a colleague around them (‘Buddy system’)
    c. The antechamber needs to be purged with air
    d. The antechamber needs to be wipe cleaned after usage

8. What should you do when skin is exposed to lead based material?
    a. Get fresh air
    b. Apply bandage
    c. Seek immediate medical attention
    d. Flush exposed skin areas with plenty of water for at least 15 minutes then seek medical attention

9. What should secondary containers be used for?
    a. Transporting lead compounds and devices
    b. Storing of hazardous materials inside a drawer
    c. Storing of lead based materials in fume hoods and gloveboxes
    d. Storage of needles and sharps

10. What is the reference blood lead level for adults according to the National Institute for Occupational Safety and Health (NIOSH)?
    a. 0.5 µg/dL
    b. 5 µg/dL
    c. 100 µg/dL
    d. 50 g/dL

11. What lead monitoring tools are available in KAUST?
    a. Sampling with ICP detection
    b. Optical microscopy
    c. Flame test
    d. 3M Lead test swabs