

**GEOGRAPHIC INFORMATION SYSTEMS
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***** EXAMINATION *****

**CONTROLLING LEAD EXPOSURES IN THE CONSTRUCTION INDUSTRY:
ENGINEERING AND WORK PRACTICE CONTROLS**

1. **The current OSHA standard for lead exposure in construction has**
 - a) a permissible exposure limit of 30 micrograms per cubic meter
 - b) a permissible exposure limit of 50 micrograms per cubic meter
 - c) a permissible exposure limit of 70 micrograms per cubic meter
 - d) a permissible exposure limit of 90 micrograms per cubic meter

2. **A recommended engineering control for lead exposure includes:**
 - a) substitution
 - b) change of process
 - c) local exhaust ventilation
 - d) All of the above

3. **An example of substitution is**
 - a) the use of a less hazardous material
 - b) changing the process equipment
 - c) changing the process
 - d) Any of the above

4. **Changing the process equipment may involve**
 - a) changing to vacuum blast cleaning
 - b) changing to wet abrasive blast cleaning
 - c) changing to shrouded power tool cleaning
 - d) Any of the above

5. **A substitute should not be toxic such as**
 - a) a chromate
 - b) iron
 - c) steel
 - d) None of the above

6. **The containment structure for isolation must**
 - a) improve visibility
 - b) contain water
 - c) contain a fire extinguisher
 - d) All of the above

7. **The most reliable method of cleaning dusty surfaces is**
 - a) washing
 - b) polishing
 - c) vacuuming
 - d) blowing

8. **An important personal hygiene practice is**
 - a) eating outside the cafeteria
 - b) washing your hands
 - c) changing your gloves
 - d) All of the above

9. **Showers for washing lead exposures to skin should have**
 - a) hot and cold water
 - b) bleach
 - c) hot water only
 - d) All of the above

10. **Process and control equipment should be routinely**
 - a) inspected
 - b) maintained
 - c) repaired
 - d) All of the above

11. **In order to properly perform their tasks, workers should be**
 - a) part of a union
 - b) paid better
 - c) trained
 - d) licensed as an engineer

12. **A competent person should perform frequent and regular inspections of**
 - a) the job sites
 - b) the materials
 - c) the equipment
 - d) All of the above

13. **Identifying each worker affected by lead exposure**
 - a) is part of a job rotation schedule
 - b) gives management information valuable for evaluating pay raises
 - c) gives management information valuable for eliminating exposed workers
 - d) None of the above

14. **The most common method of removing lead-based paints is**
 - a) covering with paint
 - b) spraying with acetone
 - c) open abrasive blast cleaning
 - d) spraying with acid

15. **Containment or enclosure systems are broadly classified as**
- a) closed or open
 - b) partial or full
 - c) filtered or non-filtered
 - d) screened or vented
16. **A less dusty method of open abrasive blast cleaning is**
- a) chemical stripping
 - b) power-tool cleaning
 - c) sponge jetting
 - d) Any of the above
17. **The local containment for a blast nozzle is known as**
- a) a shroud
 - b) a vest
 - c) a cape
 - d) Any of the above
18. **An disadvantage of vacuum blasting is**
- a) the weight of very heavy vacuum heads
 - b) the lack of available water
 - c) the lack of noise
 - d) All of the above
19. **Corrosion inhibitors which raise industrial hygiene concerns may include**
- a) nitrates
 - b) nitrites
 - c) amines
 - d) All of the above
20. **The disadvantage of sponge jetting is**
- a) too many operators are required
 - b) it is difficult to operate
 - c) productivity is lower than open abrasive blasting
 - d) All of the above

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