

SUSPENDED SCAFFOLD with HAZARD AWARENESS (SSHA)

Test Version "A" – Revised 5.2003

INSTRUCTIONS:

- Print your name on the Scantron sheet in spaces provided
- Darken in the letters corresponding to your name on the Scantron sheet
- Darken in the test version in the Test Form section
- Record all answers on the provided Scantron sheet
- Return Scantron sheet and exam to instructor when finished

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1. Who would be most likely to use a suspended scaffold on a high-rise building?
 - A. Steelworkers
 - B. Concrete workers
 - C. Mechanical installers
 - D. Mechanics
 - E. Glaziers
 2. Is it mandatory that workers using a suspended scaffold, use fall arrest equipment?
 - A. No
 - B. Yes, in all cases
 - C. Only on multi-tier scaffolds
 - D. Only with single suspended systems
 - E. Only on multiple suspended systems
 3. Which of the following is a true statement regarding lifelines?
 - A. They have a safety factor of 4:1
 - B. They are independently anchored
 - C. They are strung horizontally
 - D. They are anchored to the structure face
 - E. They must be at least 5/16 inch rope
 4. On which suspended scaffold system would a davit be a part?
 - A. Upper support system
 - B. Lower support system
 - C. Fall arrest system
 - D. Guardrail system
 - E. Suspended System
 5. Where is a lanyard used?
 - A. With the tie-back
 - B. With the outrigger beam
 - C. With the suspended system
 - D. With the davit
 - E. With a fall arrest system

6. Under what circumstance is it acceptable for a worker to be disconnected from the fall arrest equipment?
- A. When climbing off the scaffold
 - B. When the scaffold reaches the top point
 - C. When working on the roof during rigging
 - D. When the fall hazard has been removed
 - E. When the scaffold is moving up or down
7. Why are 16-foot outriggers equipped with a splice plate in the middle?
- A. To increase the beam strength
 - B. To meet the design requirements
 - C. For the attachment of ropes
 - D. For the support of counterweights
 - E. For transportation in elevators
8. Why is it recommended to use wood blocks when a parapet clamp is used to support a suspended scaffold?
- A. So the clamp fits the parapet
 - B. For increased arm reach
 - C. To raise the clamp above the parapet
 - D. To spread the point loading over a greater area
 - E. So the clamp grips the parapet
9. Why are davits made to pivot when attached to a building?
- A. To allow a greater arm reach beyond the building surface
 - B. For additional horizontal reach of the work platform
 - C. So the suspended scaffold can be moved onto the roof
 - D. As a means for raising and lowering the work platform
 - E. To lock it in a horizontal position while in use
10. What is the most important step that will ensure the support components meet the design requirements?
- A. They are over-designed
 - B. They are inspected for safety
 - C. Their past history is suitable
 - D. There are multiple back-ups
 - E. They are easily erected
11. What is the purpose of a pre “walk the job” procedure?
- A. To allow a person to be comfortable
 - B. To determine which ropes to use
 - C. To ensure pedestrians are clear of the area
 - D. To pick up all equipment after the job is done
 - E. To determine the best support device
12. In the following formula, what does the “W” represent?

$$W = \frac{L \times a \times 4}{b}$$

- A. Width of a backspan
- B. Amount of counterweight
- C. Length of the arm reach
- D. Position of the fulcrum
- E. Weight of the load

13. If the outrigger arm reach is 4 ft., what is the minimum length of the backspan?
- A. 4 ft.
 - B. 8 ft.
 - C. 12 ft.
 - D. 16 ft.
 - E. 20 ft.
14. What is the purpose of requiring the support system to have a safety ratio of 4:1?
- A. To satisfy regulatory officials and prevent any legal action in case of accidents
 - B. To determine at what time and situation the platform might be overlooked
 - C. To assist the designer in determining the length of outrigger beam to be used
 - D. To ensure the Suspended Scaffold does not cause the support system to fail
 - E. To make certain that the wire ropes are attached at the proper location
15. If tie-back ropes are used with transportable support system, what is one of the requirements?
- A. They are taut and at right angles to the platform
 - B. They are loose
 - C. They are short
 - D. They are single strand
 - E. Two are always used
16. What is the most common diameter of wire rope used with suspended scaffold?
- A. $\frac{1}{4}$ inch
 - B. $\frac{5}{16}$ inch
 - C. $\frac{3}{8}$ inch
 - D. $\frac{7}{16}$ inch
 - E. $\frac{1}{2}$ inch
17. What is the purpose of a wire rope thimble?
- A. It prevents the wire rope strands from unraveling
 - B. It prevents the shackle from being punched and left rigid
 - C. It ensures that the clamps are properly located on the wire rope
 - D. It prevents the wire rope from being crushed as it is bent
 - E. It keeps the individual wire rope strands together
18. What is one of the considerations when a J-bolt is used at a wire rope termination when used with suspended scaffolds?
- A. You must torque the bolts
 - B. You must not re-use them
 - C. You will need at least four
 - D. You must space them 6" apart
 - E. You must never re-tighten them
19. Which type of hoist has limited ability to raise or lower a work platform quickly?
- A. Manually operated hoists
 - B. Pneumatically operated hoist
 - C. Traction operated hoist
 - D. Drum operated hoist
 - E. Electronically operated hoist

20. What is the main requirement when a hand tucked eye splice is used for a wire rope termination?
- A. It must be done in a factory setting
 - B. A trained person must do it
 - C. It must be tested and labeled
 - D. Only one is allowed per rope
 - E. The rope can only be used once
21. What is the recommended type of wire rope clamp?
- A. U-bolt
 - B. J-bolt
 - C. Machine bolt
 - D. Carriage bolt
 - E. Shackle bolt
22. On two-point suspended work platforms, how is the platform kept level?
- A. Locate the stirrups on the platform ends
 - B. Maintain equal spacing of the stirrups
 - C. Placing support systems equal to hoist spacing
 - D. Both hoists must operate simultaneously
 - E. Ensure both shackles are the same
23. Which of the following is critical for workers to determine regarding the choice of work platform?
- A. The load capacity of the platform
 - B. The length of the platform
 - C. Type of material used on the platform
 - D. How long the platform has been in use
 - E. The manufacturer of the platform
24. When a wire rope is terminated, what is the minimum number of clamps that must be used?
- A. 1
 - B. 2
 - C. 3
 - D. 4
 - E. 5
25. If there is no suitable anchor point for the fall arrest lifeline, what should the worker do?
- A. Refuse the job and notify the owner
 - B. Report the situation to local authorities
 - C. Tie off to the work platform
 - D. Tie off to the suspension system
 - E. Double your life insurance policy
26. What does the "B" represent when referring to the "ABD" of fall arrest equipment?
- A. The worker's harness
 - B. Support ability of the harness
 - C. Support ability of the connection drive
 - D. The anchorage of the lifeline
 - E. The anchorage of the support system

27. What is recommended to prevent fall arrest lanyard roll out?
- A. Use double locking snap hooks
 - B. Keep lanyards as short as possible
 - C. Locate rope grabs as high as possible
 - D. Ensure lifelines are vertical
 - E. Have "D" rings between shoulders
28. When selecting a fall arrest body harness, which of the following guidelines should you use?
- A. Select the harness that has one "D" ring
 - B. Select the harness that has several "D" rings
 - C. Select the harness that has never been used
 - D. Select the harness that provides good freedom
 - E. Select the harness that best fits your body
29. At what point on the lifeline should the rope grab be placed?
- A. As close to the platform as possible
 - B. As high above the worker as possible
 - C. At a point as convenient as possible
 - D. At a point at right angles to the worker
 - E. Wherever the lanyard is kept taut
30. To what are trolley lines attached?
- A. The special lifelines at the platform ends
 - B. Structural parts of the above platform
 - C. The main wire rope support system
 - D. The second wire rope support system
 - E. At the mid-point of the upper platform
31. If the normally accepted practice of securing fall arrest equipment cannot be achieved, what should be done?
- A. Do the best you can
 - B. Check with regulatory people
 - C. Consult competent experts
 - D. Increase the safety factor
 - E. Refuse to do the job
32. When is it recommended that fall arrest equipment be inspected?
- A. Once every year
 - B. Once every month
 - C. Once every week
 - D. Before every use
 - E. After prolonged storage
33. What record must be kept after the twice-annual fall arrest equipment inspection?
- A. No record is required to be kept
 - B. Location of inspection and the date
 - C. Only the inspector's name
 - D. Inspector's name and the date
 - E. Inspector's name and credentials

34. What is wrong with using fall arrest protective equipment made up of components from different manufacturers?
- A. Nothing, provided the manufacturers are reputable
 - B. Nothing, provided the manufacturers are approved
 - C. The safety factor for each component may be too low
 - D. The cost of all the components may be unacceptable
 - E. The components may not be compatible with one another
35. From what source will you find the criteria for the inspection of fall arrest equipment?
- A. Scaffold & Access Industry Association
 - B. OSHA regulations
 - C. ANSI codes and guidelines
 - D. Equipment manufacturers
 - E. Local officials
36. Where can you get inspection guidelines for fall arrest equipment?
- A. The manufacturer
 - B. The structure owner
 - C. Regulatory officials
 - D. Government agencies
 - E. Insurance companies
37. Who writes codes for suspended scaffolds?
- A. The owner of the structure in question
 - B. Specially trained competent persons
 - C. Local worker's compensation organizations
 - D. American National Standards Institute
 - E. Scaffold & Access Industry Association
38. Which of the following must be checked when ensuring the counterweights are adequate?
- A. They are located as close to the fulcrum as possible
 - B. They comply with the counterweight formula
 - C. They are free to move in a side-to-side motion
 - D. They have a safety factor ratio of 10:1
 - E. They are easily adjusted depending on the loads
39. What should be done if the wire rope has a slight kink in it?
- A. Nothing, just use it
 - B. Replace the rope
 - C. Try to take the kink out
 - D. Splice in a new section
 - E. Check with the manufacturer
40. When installing the rigging for a suspended scaffold system on a roof, must the workers always wear fall arrest equipment?
- A. No, this is not a requirement
 - B. Yes, this is always a requirement
 - C. Yes, if there is only one worker
 - D. Yes, if the roof is unguarded
 - E. Yes, provided there is suitable anchorage

41. What is one of the safety features of a fall arrest rope grab while in use?
- A. The manufacturer stands behind it
 - B. There is a build-in quick-release feature
 - C. The brake is manually operated
 - D. It can be easily moved from line to line
 - E. It always stays attached to the lifeline
42. Which of the following is one of the considerations you must take regarding a lifeline?
- A. Coil it on the platform
 - B. Wrap it around the support wire
 - C. Ensure it has a 6:1 safety ratio
 - D. Protect it from sharp edges
 - E. Use the largest size possible
43. Who participates in setting the ANSI Standards?
- A. A committee made up of elected officials
 - B. A committee made up of experts
 - C. A committee made up from the public
 - D. People that have an interest
 - E. Engineers who design scaffolds
44. On a twice-annual basis who must do an inspection of fall arrest equipment?
- A. Equipment manufacturer
 - B. A competent person
 - C. An engineer
 - D. OSHA representative
 - E. ANSI representative
45. Which of the following would be a situation where double rigging of a suspended scaffold would be used?
- A. Systems with more than two suspension points
 - B. With platforms located one above another
 - C. If three or more workers are on the platform
 - D. When excessive wind is to be encountered
 - E. To allow ease in horizontal platform movement
46. What does the "A" stand for when referring to the "ABC" of fall arrest equipment?
- A. The worker's harness
 - B. Support ability of the harness
 - C. Support ability of the connection device
 - D. The anchorage of the lifeline
 - E. The anchorage of the support system
47. For imported wire rope used to support a suspended scaffold in the United States of America, what would be the approximate comparable size to a 5/16 inch rope?
- A. 5 mm
 - B. 6 mm
 - C. 8 mm
 - D. 10 mm
 - E. 12 mm

48. Why must the spacing between support systems be equal to the spacing between work platform hoists?
- A. So the hoists work easier
 - B. To avoid side loading
 - C. To prevent tipping
 - D. To avoid tie-down
 - E. For uniform lifting
49. From the examples below, which would not be considered as part of the suspended system?
- A. Rollers
 - B. Counterweights
 - C. Workers
 - D. Hoists
 - E. Wire Ropes
50. What type of suspended scaffold does not require guardrails on all open sides?
- A. There are none
 - B. Single point
 - C. Two point
 - D. Bosun chair
 - E. Aerial platform