

Suspended Scaffold Hazard Awareness and Operator Safety Training Exam Ver C

Instructions:

Please do not make marks on the exam, record all the answers on the scanner sheet provided.

The test has 55 questions (7 pages) ensure the test you have has all the pages.

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Be sure to darken in the answers completely. EG ●

1. True or False? Positive locking carabineers and fall protection hardware is mandatory.
 - A. True
 - B. False

2. Which manufacturers of swingstage have components that are interchangeable with other manufacturers?
 - A. SkyClimber and Safeway
 - B. Tractel and Power Climber
 - C. Winsafe and Tractel
 - D. None of the manufacturers allow intermixing of components from different manufacturers.

3. True or False? A softener must be used when a cable is passed over a roof edge, parapet wall, or around any object.
 - A. True
 - B. False

4. True or False? The main difference between a single cable hoist and a double/multi cable hoist is that when using a double cable hoist an engineered secondary lifeline can be attached to the swingstage structure.
 - A. True
 - B. False

5. What is the maximum height/distance you can go when using a Tirfor?
 - A. 50 ft (approximately 15 meters)
 - B. 100 ft (approximately 30 meters)
 - C. 250 ft (approximately 75 meters)
 - D. There is no limit except the length of the wire rope

6. True or False? The first action I should take if my hoist will not move up or down is to check the power supply.
 - A. True
 - B. False

7. When operating a swingstage (suspended scaffold) workers must have emergency communications. What is the best way for workers on a swingstage to communicate?
 - A. Bull Horn
 - B. Whistle
 - C. Hand signals
 - D. Radio

8. When surveying the job site you notice that the building has a non-structural parapet wall. What support system should you use?
 - A. Parapet clamp with two tie-backs
 - B. Cornice hooks
 - C. An outrigger beam supported on the parapet wall
 - D. An outrigger beam supported by an "A" frame

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9. What type of structure is required if using parapet clamps?
 - A. Wood Frame parapet wall structures
 - B. Masonry parapet wall structures
 - C. Structurally sound concrete wall
 - D. Steel stud and stucco parapet wall structures

10. How do I verify that the hoist certification is current?
 - A. Look at the hoist and make sure it is clean
 - B. Certification must be visible on the hoist
 - C. Hoists do not require certification
 - D. Call 1-800-HOIST

11. True or False? In Alberta when working within 7 meters of a power line, the workers need to know the voltage in the power line in order to determine the MSAD (minimum safe approach distance).
 - A. True
 - B. False

12. What is the secondary brake on my hoist for?
 - A. It is part of the safety system
 - B. It is part of supported system
 - C. It will stop the machine when in over speed
 - D. It is used to prevent the pins from coming out of the modular stage

13. True or False? A hoist can still be used if the emergency stop doesn't work.
 - A. True
 - B. False

14. What is the maximum allowable length of a modular swingstage?
 - A. 20 Feet (approximately 6 meters)
 - B. 40 Feet (approximately 12 meters)
 - C. 64 Feet (approximately 20 meters)
 - D. Must follow manufacturers instructions

15. What are the required components of the safety system?
 - A. Anchor, life line, positioning belt
 - B. Anchor, life line, rope grab, and positioning belt
 - C. Engineered Anchor, life line, rope grab, lanyard and a full body harness
 - D. Large hook lanyard to hook on to the guardrail and a positioning belt

16. What must you do if you feel the work is unsafe?
 - A. Refuse work and get clarification from my supervisor
 - B. Continue working
 - C. Phone a family member for clarification
 - D. Call Federal OSHA in Washington D.C.

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17. How many people can safely attach to one safety line?
 - A. 1
 - B. 2
 - C. 3
 - D. As many as required to complete the work

18. Are you allowed to move the swingstage (laterally or horizontally) while workers are on the platform?
 - A. Yes
 - B. No
 - C. Only if your boss says it's OK
 - D. Only if the swingstage has been engineered to do so

19. When performing work from a swingstage (suspended scaffold), how often must you check the emergency functions on the hoists?
 - A. Must be checked every 21 days
 - B. Must be checked once a month
 - C. Must be checked once a week
 - D. Must be checked on re-entry each time

20. Where must the roof plan be located?
 - A. In the safety office
 - B. At the operations desk
 - C. At the corporate head office
 - D. On each of the roof access doors or hatches

21. How many 50lb counter weights are required when you have a 16 ft outrigger beam projecting 4ft and the hoist capacity is 1000 lbs.
 - A. 10
 - B. 18
 - C. 22
 - D. 27

22. True or False: Davit arms are considered temporary rigging as opposed to being part of the building structure.
 - A. True
 - B. False

23. True or False? Inspection of the swingstage is the responsibility of the operators/ users of the stage.
 - A. True
 - B. False

24. When tying back the swingstage, what must you always tieback too?
 - A. Air unit or other mechanical equipment installed on the roof
 - B. Antennas or other communication equipment installed on the roof
 - C. Engineered tiebacks or a part of the building structure capable of withstanding a 5000 lb load in any direction
 - D. Stairwell railing

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25. What do you do if you come across damaged equipment on-site?
 - A. It can only be used for that shift then must be replaced
 - B. The equipment must be tagged out and/or locked out immediately
 - C. Make a note of it in your job log and continue working
 - D. No action is required

26. Electric hoists used for swingstage operations must have a tag (label) indicating the date of the last inspection on the hoist. What is the maximum period of time allowed before the hoist must be inspected?
 - A. One week
 - B. One month
 - C. One year
 - D. Two years

27. What is the primary purpose of a bumper roller?
 - A. Protect the face of the building
 - B. Allow easy movement of the swingstage on ground or landing platform
 - C. Allows the wire rope to be inserted into the hoist mechanism
 - D. Allows for the wire rope to be easily deployed and rolled up on the roof

28. True or False? An employer shall develop work practices and procedures for the safe use and operation of any suspended powered scaffold.
 - A. True
 - B. False

29. What do you do if the wire rope is too short for the drop distance required for the building?
 - A. Add a wire rope sling to the top of the rigging
 - B. Do not rig the swingstage until the correct length of wire rope can be delivered
 - C. Add a wire rope sling to end of the wire rope
 - D. Add the tieback rope to the top of the rigging

30. What action is necessary if there is lightning in the area?
 - A. Put on rain gear and continue working
 - B. Work on the other side of the building
 - C. Stop work and wait at least one hour after the last strike was observed
 - D. Don't look directly at the lightning

31. True or False? While working on a swingstage, I can un-hook from my life line if my boss says it's OK.
 - A. True
 - B. False

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32. According to Alberta OHS requirements a control zone must be established at the edge of the building,. When must you be tied off when rigging the swingstage on the roof according to the Alberta regulations? (IE Dropping Cables)
 - A. 1 meter from the edge
 - B. 1.5 meters from the edge
 - C. 2 meters from the edge
 - D. 3 meters from the edge
33. True or False? In Alberta, all scaffold including swingstage needs to be inspected and tagged at least every 21 days. As a best practice the swingstage should be inspected each time workers leave the stage and come back.
 - A. True
 - B. False
34. True or False? A worker must be tied-off while working on a swing stage and remain on the platform between the suspension cables at all times.
 - A. True
 - B. False
35. What percentage of the load must a tieback rope support when used with transportable suspended scaffolds?
 - A. 40%
 - B. 50%
 - C. 80%
 - D. 100%
36. True or False? A secondary brake is required when using a Tirfor on a personnel basket.
 - A. True
 - B. False
37. True or False? The first thing I must do if I am moving the swingstage from one location on the roof to another is disconnect the power supply.
 - A. True
 - B. False
38. True or False? When installing a swingstage in an explosive environment, an air hoist or explosion proof electrical cables and connectors must be used.
 - A. True
 - B. False
39. Which of the following can design an anchor system?
 - A. Journeyman carpenter
 - B. Professional Engineer
 - C. The site superintendent
 - D. Occupational Health and Safety Officer

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40. True or False? A worker must be tied-off using approved fall protection equipment before entering the swing stage.
 - A. True
 - B. False

41. What must I do before approaching the edge of the roof?
 - A. I must tie off
 - B. I should look over the edge to see what is below
 - C. I should approach the edge with caution
 - D. No special precautions are required

42. What is the wind speed at which it is **not** recommended by most manufacturers to work from a swingstage?
 - A. 10 mph (16 km/h)
 - B. 25 mph (40 km/h)
 - C. 40 mph (65 km/h)
 - D. 50 mph (80 km/h)

43. What does a **RED TAG** on the swingstage mean?
 - A. Be very careful when operating the swingstage
 - B. Do not use the swingstage
 - C. The power is out
 - D. The site has been shut down for the day

44. What type of swingstage can be used in Alberta?
 - A. Commercially manufactured swingstages
 - B. Wood frame swingstages
 - C. Heavy steel beam reinforced swingstages
 - D. Any type of platform is acceptable

45. What is the safety factor when calculating the amount of counter weight required for an outrigger beam?
 - A. 2:1
 - B. 2:3
 - C. 3:1
 - D. 4:1

46. What does the W stand for in the counter weight formula?
 - A. Hoist capacity
 - B. Outboard distance
 - C. Length of tieback
 - D. Weight (Ballast)

47. What is the purpose of a pre "walk the job" procedure? (Pre-site inspection)
 - A. To allow the workers to be comfortable
 - B. To ensure pedestrians are clear of the area
 - C. To pick up the equipment after the job is completed
 - D. To determine the most suitable equipment for the job.

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48. What must be included in a roof plan for suspended scaffold?
 - A. Drop locations and rigging procedures
 - B. Anchor locations and limitations
 - C. The plan must be stamped by an engineer registered in Alberta
 - D. All of the above must be included in a roof plan for suspended scaffold

49. From the selection below: What material is un-acceptable for use as an outrigger beam?
 - A. Aluminum
 - B. Douglas Fir
 - C. Steel
 - D. All of the above are acceptable materials for an outrigger beam

50. When must the wire rope cables be grounded and insulated using cable protection?
 - A. When window washing from the swingstage
 - B. When welding from the swingstage
 - C. When caulking operations are being performed from the swingstage
 - D. When operating the swingstage during a severe thunderstorm

51. What is the safety factor for wire rope (rigging) in Canada?
 - A. 3:1
 - B. 4:1
 - C. 6:1
 - D. 10:1

52. True or False? In Canada the maximum tieback angle for a single tie-back is 25 degrees. If the tieback angle exceeds 25 degrees two opposing tiebacks must be used.
 - A. True
 - B. False

53. What should you do if the swingstage will go up but not down?
 - A. Check the over speed brake and reset
 - B. Take the brake apart
 - C. Force the brake open
 - D. There is nothing you can do

54. True or False? The vertical limit for a horizontal tieback line is 10 degrees from the horizontal line established by the outrigger beam.
 - A. True
 - B. False

55. What type of harness must you use when working on a swingstage?
 - A. A positioning belt
 - B. A full body harness
 - C. A mountain climbing harness
 - D. Any or the above harnesses is acceptable