



DO NOT MAKE MARKS ON THE EXAM

Journeyperson - Level 2

USE A PENCIL TO COMPLETELY FILL IN THE CIRCLE ON THE BUBBLE SHEET

Version D

DO NOT SELECT MORE THAN ONE ANSWER PER QUESTION

DO NOT X OUT UNWANTED ANSWERS, **ERASE** THEM COMPLETELY

1. You are building a two-tier frame scaffold. In your determination of the scaffold load, which component needs to have the greatest load capacity?
 - a. The bearers.
 - b. The scaffold legs.
 - c. The top rail.
 - d. The platform.

2. A 'safe limit of approach' refers to what kind of jobsite hazard?
 - a. Dust and fume hazards.
 - b. Wind loads.
 - c. Fall hazards.
 - d. Electrical.

3. If a scaffold has been erected on a suitable soil foundation, and will be in place for a long time what additional step should be taken?
 - a. Provide surface drainage away from the scaffold base.
 - b. Drive stacks to ensure the sills will not shift.
 - c. Install guy wires to increase stability.
 - d. Cover the area with a layer of crushed gravel.

4. Where are the first and last horizontal anchor ties placed on a scaffold?
 - a. At any suitable anchor location.
 - b. At each end of the scaffold.
 - c. Within 30 feet of the ends.
 - d. There is no specified location.

5. What is the purpose of making a grid out of bearers and runners at every lift when erecting an area scaffold?
 - a. To facilitate stair installation.
 - b. To tie all the posts together.
 - c. To support the platforms.
 - d. For the installation of sway braces.



6. A key benefit of using ramps for access on scaffold is:
 - a. Ramps are safer to use in wet environments.
 - b. Ramps have a higher allowable load rating.
 - c. Ramps require less frequent inspections.
 - d. Ramps can be used for loading material.

7. What purpose can runners and bearers serve above the working platform level?
 - a. They can help distribute the loads horizontally to the ties.
 - b. They can provide diagonal bracing to the scaffold structure.
 - c. They can provide a tie-off point for fall arrest equipment.
 - d. They can be used as the top and mid rail in a guardrail application.

8. Before making an equipment list for a scaffold, what should be done?
 - a. Create a sketch of the scaffold.
 - b. Determine the end use of the scaffold.
 - c. Consider the total cost of the equipment.
 - d. Obtain all of the necessary permits.

9. Which of the following is the **best** place to work from while dismantling a scaffold?
 - a. Crossbraces can be used if the scaffold has ties.
 - b. Planks used as temporary work platforms at each level.
 - c. Any horizontal member, as long as it is load-bearing.
 - d. Ladders that can be easily moved from place to place.

10. Which of the following jobsite conditions would require a scaffold to be erected with ties?
 - a. A location that causes vibratory loads.
 - b. An area with an unstable foundation.
 - c. A jobsite with too many workers.
 - d. A location with strong winds.

11. Where would you position yourself to have a plan view of a structure?
 - a. Directly in front of the structure.
 - b. Directly beside the structure
 - c. Directly above the structure.
 - d. Directly behind the structure.



12. Select the **best** description of shrink wrap.
- It has a big impact on the potential wind load of the structure.
 - It is made up of a thin layer polyester lined with neoprene.
 - It adds a significant amount of extra weight to the structure.
 - It is installed on structures that require temperature control.
13. What is the **primary** purpose of outriggers on a rolling scaffold?
- They provide space for more platforms.
 - They are required for caster installation.
 - They extend the base of the scaffold.
 - They are used for additional bracing.
14. Select the **best** answer. A shipment of bricks has been lifted by crane to the platform of a scaffold structure. These bricks will increase the scaffold's _____.
- load path
 - accumulation.
 - actual load
 - allowable load
15. For frame scaffolds, how should a frame style putlog be placed on the support when used for a frame scaffold platform?
- Bolt the putlog to the u-head and anchor both to the frame leg.
 - Extend the putlog 75 mm (3 inches) beyond the support.
 - Extend the putlog 150 mm (6 inches) beyond the support.
 - Place the putlog ends directly on the center of the support.
16. The **primary** difference between hoists and winches is the:
- factor of safety.
 - pulling direction.
 - load capacity.
 - rope material.



17. Select the **best** answer. What is the safest way to install ladders on a multi-tier scaffold?
- Stairs must be used on multi-tier scaffolds.
 - In one unbroken length.
 - In a staggered pattern.
 - On alternating sides of the scaffold.
18. When installing a stair tower, where are midrails required?
- On the stair landings.
 - On the outside face of the stairway.
 - On both sides of the stairway.
 - On stairs higher than three lifts.
19. A diagonal (face or sway) brace is to be installed on a scaffold. If the top connection point of the brace is 10 units high and the distance across the base of the scaffold is 10 units, how long will the brace need to be?
- 14.14 units
 - 10.49 units
 - 28.28 units
 - 10 units
20. What is the function of vertical diagonal tubes on tube and coupler scaffold?
- They keep the scaffold plumb.
 - They support ledgers and transoms.
 - They maintain an equal distance between inner and outer posts.
 - They increase the load bearing capacity of the scaffold structure.
21. You are instructed to erect a scaffold on an unsuitable soil foundation. What do you do?
- Recognize poor conditions and seek help.
 - Fill in low areas to ensure the soil is level.
 - Call OH&S to the site for an inspection.
 - Determine the soil capacity through tables.



22. What is the **primary** consideration regarding the strength of a rolling scaffold?
- The spot where ladders will be installed.
 - The type of work performed on the scaffold.
 - The allowable load rating of the casters.
 - The overall size of the rolling platform.
23. In the case of a fall, a lanyard must not allow the worker to free fall more than:
- 4.2 metres.
 - 0.5 metres.
 - 3.7 metres.
 - 1.2 metres.
24. Select the **best** answer. What is the correct location for check clamps on a hanging scaffold?
- Check clamps are not permitted on hanging scaffold.
 - 150 mm (6 inches) below the supporting clamp.
 - On the inside of the main supporting clamps.
 - Either above or below the main supporting clamp.
25. Select the **best** description of debris nets.
- They can be used interchangeably with personnel nets.
 - They must be thoroughly cleaned once every seven days.
 - Their purpose is to protect people below the net, not above it.
 - Once installed, they cannot be moved until the job is complete.
26. The outer dimension of a building is called the:
- linear.
 - diameter.
 - perimeter.
 - radius.
27. How must a guardrail gate open in relation to the platform?
- It must only open from the right side.
 - It must swing out towards the ladder.
 - It must swing in towards the platform.
 - It must only open from the left side.



28. When you are using a sling to support a load, what is the **most** important safety consideration?
- The angle of the sling impacts the strength of the sling.
 - Slings must never be used with load softeners.
 - A knot in the sling increases the strength of the sling.
 - Slings must never be used with rigging hardware.
29. Select the **best** available answer. What is a key factor in determining if a toeboard should be installed on a scaffold?
- They must be installed on platforms less than 1.22m (4 feet) wide.
 - They must be installed where there is a danger to workers below.
 - When midrails are not required, toeboards are also not required.
 - When midrails are not required, toeboards must be installed.
30. When erecting a rolling scaffold, which of the following components are required?
- Outriggers for two sides of the structure.
 - Casters with locking wheels, or blocks.
 - Mudsills and adjustable screwjacks.
 - Inflatable casters and outriggers.
31. When do CSA Standards, such as the CSA Z797, apply to the work you are doing?
- The apply only when there is no provincial OH&S code.
 - CSA Standards do not apply to jobsites in Canada.
 - CSA Standards apply on all jobsites across Canada.
 - Only when the provincial OH&S code includes them.
32. Where is the correct placement of check clamps in relation to the load bearing coupler?
- Above and in contact with the load bearing coupler.
 - Below and in contact with the load bearing coupler.
 - Below, but not touching, the load bearing coupler.
 - Above, but not touching, the load bearing coupler.



33. Which of the following **best** describes a sway brace?
- A brace installed horizontally, to keep the scaffold structure square and level.
 - A long brace, installed diagonally, to support the decking material.
 - A brace attached to the face of the building to prevent the structure from tipping.
 - A long brace, installed diagonally, to keep the structure plumb and vertical.
34. What is the recommended way in which laminated planks should be inspected?
- Laminated planks do not require regular inspection as they don't degrade.
 - Each plank must be subjected to a moisture content analysis for 24 hours.
 - Planks must be subjected to an above average point load without warping.
 - Inspections must be conducted according to manufacturer's specifications.
35. Why is it important to ensure the first lift of a scaffold is plumb and level in all directions?
- So that the mudsills do not cause damage to the ground level.
 - To maintain the stability of the entire scaffold structure.
 - So that all cross braces connect in the correct location.
 - To avoid unnecessary damage to the baseplates and mudsills.
36. If ties cannot be used to provide stability to a scaffold and buttresses are used, at what intervals must they be placed?
- Every fourth bay along the scaffold length.
 - Equal to every second tie spacing requirement.
 - At every interval where access is provided.
 - At least equal to the tie spacing requirement.
37. When are tag lines required on a load?
- When the lift is happening close to a nearby structure.
 - When the length of the material is longer than 3 metres.
 - When load softeners cannot be used to support the load.
 - When synthetic fibre ropes are used to secure the lift.



38. Besides swivel clamps, which of the following can be used as a check clamp?
- parallel coupler
 - outside joiner
 - expansion connector
 - right angle coupler
39. What is the circumference of a circular storage tank that has a radius of 14 metres? (round up to the nearest whole number)
- 88 metres
 - 18 metres
 - 44 metres
 - 616 metres
40. If a joiner is used to join two tubes in a runner or guardrail situation, how far away from the upright should the joiner be located?
- 610 mm (2 feet)
 - 1.2 meters (4 feet)
 - 300 mm (12 inches)
 - 150 mm (6 inches)
41. Select the **best** explanation of the placement of a wedge-style coupler.
- The coupler should be positioned with the narrow end facing outwards.
 - The coupler should be positioned so the wedges drive both upward and inward.
 - The coupler should be positioned with the narrow end facing upwards.
 - The coupler should be positioned so the wedges drive both downward and outward.
42. Why are fabricated scaffold decks a good choice for rolling frame scaffold?
- They are very lightweight and easy to install.
 - They are capable of carrying the heaviest loads.
 - They are inexpensive and can be easily replaced.
 - They help to keep the scaffold from racking.

43. How would you determine the allowable load rating for the swivel couplers you using on a job?
- You must refer to the manufacturer's specifications.
 - You can use the same load rating as the platforms.
 - You can use the load of the right angle coupler.
 - You must take the applied load and multiply by four.
44. In what situation would guy wires be installed?
- When the average wind speed is greater than or equal to 60 km/h.
 - When the supporting structure has an exterior made of wood.
 - When the supporting structure is not strong enough for ties.
 - When the surrounding foundation is made of asphalt or concrete.
45. Where can you find detailed information about the load rating of a specific system scaffold component?
- In the CSA Z797-18 regulation document.
 - In the manufacturer's specification document.
 - In a scaffold apprenticeship training document.
 - In the provincial OH&S regulation document.
46. Which horizontal member on a system scaffold is the **primary** load carrying member?
- The braces.
 - The runner.
 - The guardrail.
 - The bearer
47. Select the **best** description of an eccentric load.
- A load that occurs inside the base of a structure..
 - A load that occurs outside the base of a structure.
 - A load that affects the ties on a structure.
 - A load on a structure caused by high winds.

48. If a buttress is required on a scaffold tower, what is the most efficient angle for the brace?
- 15 degrees.
 - 30 degrees.
 - 60 degrees.
 - 45 degrees.
49. Select the **best** description of a positive tie.
- They rely on friction and pressure for their holding power.
 - They are only permitted when other types of ties can't be used.
 - They can be used across openings, such as windows or doors.
 - They have an anchor attached directly to a supporting structure.
50. Which of the following is a method to extend the width of the working platform on a system scaffold?
- Extend the platform with side brackets.
 - Cantilever a wood plank.
 - Install an inside plank.
 - Erect an additional cantilever scaffold.
51. When making a sketch of a scaffold, what views are typically shown?
- The back, front, and left elevations.
 - The left and right elevations, and the plan view.
 - The top, front, and back elevations.
 - The front and plan elevations, and a sectional view.
52. Can a scaffold be erected on a surface where grass or weeds are present?
- Yes, but mudsills must be used in areas where the ground is soft.
 - No, the ground cover must be removed, replaced with gravel, and compacted.
 - Yes, but paving stones or blocks must be used instead of mudsills.
 - No, the surface must be levelled and compacted in all active areas.



53. You are required to erect a scaffold on a sloped foundation, where do you start the build?
- In the middle of the slope.
 - The high end of the slope.
 - The low end of the slope.
 - Anywhere along the slope.
54. Which component is recommended for use on a system scaffold to form a bridge?
- System I-beam.
 - System putlogs.
 - System trusses or girders.
 - System bridge beam.
55. A rectangular building has an area of 8,161 m². If the width of the building is 32 metres, what is the length of scaffold run needed for the length of the building?
- 105 metres
 - 195 metres
 - 255 metres
 - 200 metres
56. Which of the following components should be used to attach a system bridging unit to a system scaffold leg when running past the system standards?
- Truss hangers
 - Putlog couplers
 - U-bolt
 - Right angle clamp
57. Prior to dismantling a scaffold tower, the inspection revealed that some braces had been removed. What should be done?
- Nothing, if the ties are still in place.
 - Replace the braces that were removed.
 - Make sure all levels have full platforms.
 - Install outriggers for extra support.



58. Why is special paper used to create isometric sketches?
- It is able to show many proportions at once.
 - It shows a one-dimensional view of the sketch.
 - It helps keep all lines at a 45-degree angle.
 - It helps to keep the whole sketch in proportion.
59. The maximum height a worker can climb an access ladder between platforms is:
- 9.1 meters (30 feet)
 - 6.2 meters (20 feet)
 - 4 meters (13 feet)
 - 3.1 meters (10 feet)
60. The standard factor of safety for rigging and hoisting is:
- 40% of the breaking strength of the component.
 - 30% of the breaking strength of the component.
 - 20% of the breaking strength of the component.
 - 10% of the breaking strength of the component.
61. Select the **best** answer. In order for a load to be equally balanced, the _____ must be placed directly above the centre of gravity.
- turn buckle
 - hook
 - softener
 - slings
62. From a **safety** perspective, what is the **most** important consideration when erecting a frame scaffold.
- The scaffold manufacturer.
 - The weather conditions.
 - The height to base ratio.
 - The needs of the end user.
63. When beginning a new scaffold build, where is the **best** place to start from?
- The centre point of the scaffold area, because it is easier to move material.
 - The location closest to the scaffold material, as it is easier to move material.
 - The highest ground level because it is easy to adjust the height as you progress.
 - The lowest ground level because it is easy to adjust the height as you progress.

64. When installing a cantilever on a scaffold tower, what is the name of the brace component that supports the cantilever from the top?
- Knee brace.
 - Horizontal diagonal brace.
 - Plan brace.
 - Racker brace.
65. At what location is the force of wind the strongest?
- The ties at located at the ends of the scaffold.
 - The mudsills at the bottom of the scaffold.
 - The ledgers located at the top of the scaffold.
 - The guardrails in the middle of the scaffold.
66. Why are the majority of system scaffold components made from a standard size of tube?
- Because all scaffold tubes are made in one consistent size.
 - So that components from different manufacturers can be used.
 - So that tube and coupler fittings can be used if needed.
 - Because it allows for consistent allowable load calculations.
67. What is the **most important** component of a fall protection system?
- The harness.
 - The fall protection plan.
 - The anchor.
 - The field level hazard assessment.
68. What happens when a load is lifted quickly?
- The load is less likely to be unbalanced.
 - The load is more likely to be unbalanced.
 - More force is applied to the rope used for the lift.
 - Less force is applied to the rope used for the lift.

69. What is used to prevent trusses, bridging units or putlogs from overturning when they are used as a part of the scaffold bridge?
- Top and bottom bearers.
 - Knee brace.
 - The platform.
 - Lateral bracing.
70. What is the most important piece of information you must know before installing ties on a scaffold?
- The supporting structure is plumb.
 - The supporting structure is higher.
 - The supporting structure is stable.
 - The supporting structure is brick.
71. Who has the ultimate responsibility for your safety on a scaffold crew?
- Your employer
 - Your coworkers
 - Yourself
 - Your foreman
72. Why is tube and coupler scaffold used more often than frame and brace or system scaffold in oil refineries and gas plants?
- It is more readily available.
 - It is versatile and adaptable.
 - It can handle greater loads.
 - It can be erected more quickly.
73. Planks must overlap at least _____ beyond the supporting ledger on scaffolds with multiple bays and continuous platforms.
- 150 mm (5.90 inches)
 - 250 mm (9.84 inches)
 - 305 mm (12 inches)
 - 500 mm (19.69 inches)

74. Which of the following is the vertical supporting element of a properly erected Frame Scaffold?
- Cross brace
 - Platform
 - Frame leg
 - Runner
75. If a lanyard is used to stop a fall, regardless of the distance, what should be done with it?
- It must be discarded.
 - It must be returned to the manufacturer.
 - It can be repaired and reused.
 - It can be reused if there is no visible damage.
76. The scaffold tie anchor selection is based on:
- The type of restraint needed.
 - The available components.
 - The scaffold base width.
 - The strength required.
77. How strong does a scaffold toe board have to be?
- Able to restrain 9 kg (20 pounds) in any downward or horizontal direction.
 - Able to restrain 22.5 kg (50 pounds) in any downward or horizontal direction.
 - Able to restrain 45 kg (100 pounds) in any downward or horizontal direction.
 - Able to restrain 16 kg (35 pounds) in any downward or horizontal direction.
78. When ordering 300 scaffold planks for a job, it is expected that 12% of them will be unusable. How many planks are unusable?
- 24
 - 60
 - 36
 - 12



79. A circular storage tank needs to have a scaffold erected around it in order to re-finish the exterior sides. The scaffold is to be placed 500 mm from the exterior surface of the tank. The tank diameter is 8 metres what will the circumference of the inside leg of the scaffold be?
- 22 metres
 - 25 metres
 - 28.3 metres
 - 56.5 metres
80. Select the **best** answer. In what way are buttresses similar to ties?
- Neither are suitable for installation in high-wind situations.
 - They both require anchors to connect to a supporting structure.
 - They both use forces of tension and compression to provide stability.
 - Neither should be installed on more than one side of a scaffold.
81. What is the minimum height an access ladder must extend above a working level?
- 900 mm (35 inches)
 - 250 mm (10 inches)
 - 500 mm (20 inches)
 - 1 metre (39 inches)
82. Select the best description of OH&S Codes and Regulations.
- They apply in each province individually.
 - They do not apply to jobsites in Canada.
 - They only apply when there is no CSA standard.
 - They apply to all Canadian jobsites equally.
83. The **depth x safety factor** applies to what situation?
- The depth at which an anchor must be installed in a structure or wall.
 - The distance from which a scaffold leg must be from an excavation.
 - The depth at which a wedge must be hammered into the coupler.
 - The distance from which a midrail must be positioned above the toeboard.

84. What is one way in which a frame scaffold can be buttressed?
- Increase the length of the sills.
 - Increasing the base with additional sills.
 - Installing longer side arms.
 - Adding additional outriggers.
85. What is the volume of a rectangular scaffold that is 12 metres long, 8 metres wide and 6 metres high?
- 26 metres³
 - 52 metres³
 - 576 metres³
 - 1152 metres³
86. The Pythagorean Theorem is a formula used to calculate the measurements of:
- perimeters.
 - circles.
 - diameters.
 - triangles.
87. What kind of drawing is a blueprint?
- Plan-view
 - Isometric
 - Multi-view
 - Disproportionate
88. Select the **best** answer. Why is a ladder not a suitable way to access a scaffold when many workers require access?
- Carrying material up a busy ladder is difficult.
 - Only one person can use a ladder at a time.
 - Too many users will cause a ladder to overturn.
 - Some workers are not able to climb ladders.



89. To stabilize a long length of tube used in a buttress, what must be added?
- Stiffener brace
 - Guy wires
 - Outriggers
 - Horizontal beams
90. A scaffold run that is 25 units long and 22 units high needs a continuous sway brace across the face. What is the length?
- 6.86 units
 - 9.7 units
 - 22.56 units
 - 33.3 units
91. According to CSA Z797, how often must a scaffold be inspected?
- Every 10 days.
 - Once a week.
 - Every 21 days.
 - Every day.
92. To comply with provincial OH&S regulations, what is the maximum allowable distance between the bottom of a toe board and the platform?
- 38 mm (1.5 inch)
 - 51 mm (2 inch)
 - 6 mm (1/4 inch)
 - 25 mm (1 inch)
93. The jobsite where the scaffold is erected has received a very heavy rainfall and the scaffold seems to have leaned slightly towards the building. What is the most likely cause?
- The run-off water has caused the soil to expand in areas.
 - Likely a heavy wind accompanied the rain and has tilted the structure.
 - The upper layer of soil has lost its stability due to water saturation.
 - The excess water caused the bearing soil to expand.



94. What is the **most important** safety consideration for enclosed scaffolds?
- Protection must be installed on building walls.
 - The design must be approved by an engineer.
 - They must only use ties designed for enclosures.
 - There must be sufficient room below the structure.
95. Which component directly transfers horizontal loads to the adjacent building or structure?
- Ties
 - Couplers
 - Braces
 - Mudsills
96. Why is a horizontal diagonal brace (plan brace) required on a rolling scaffold?
- To be installed instead of cross braces if the scaffold is near an obstruction.
 - To keep the scaffold square and prevent it from collapsing when being moved.
 - To stabilize the locking casters when the foundation is unstable or slanted.
 - To be used as an alternative means of access if the ladders are not accessible.
97. What is the standard distance between the pre-formed connectors on a System scaffold post?
- Every 405 mm (16 inches).
 - Every 305 mm (12 inches).
 - Every 510 mm (20 inches).
 - Every 635 mm (25 inches).
98. In the absence of specific jurisdictional regulations, a ladder cage is required when the ladder height is more than:
- 6 metres
 - 10 metres
 - 4 metres
 - 3 metres

99. Select the **best** answer. Why does a jobsite need to be inspected before any scaffold materials are delivered?
- a. To obtain all the necessary permits from the site superintendent.
 - b. To ensure that other trades will be offsite during material delivery.
 - c. To ensure that material storage won't block access and egress points.
 - d. To make sure the material order matches the blueprint requirements.
100. What is the purpose of compacting the soil when preparing for scaffold erection?
- a. To make the sub-surface completely level.
 - b. To stop water from absorbing into the soil.
 - c. To ensure scaffold loads are distributed evenly.
 - d. To keep mudsills from slipping or shifting.