

GROVE TELESCOPIC

CORE REVIEW

QUESTIONS

CRANE ELITE PREP SCHOOL
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MOBILE CRANE OPERATOR

Telescopic Core Review Questions

- 1) When lifting off the main boom, how is the effective weight of the fly/jib different in the erected position from that of the stowed position? a) Effective weight increases. b) Effective weight decreases. c) Effective weight is reduced 85%. d) Effective weight is reduced 75%. 2) Who must determine maximum speed for a mobile crane to travel with a suspended load? a) The competent person. b) The job site. c) The superintendent. d) The craft foreman. 3) How does the effective weight of a stowed extension relate to the actual weight of the extension? a) Lower than the actual weight. b) Depends on the boom angle. c) Higher than the actual weight. d) Same as the actual weight. Using a telescopic mobile crane and lifting off of the jib with the main boom 4) partially extended, you should use _____ to determine gross capacity. a) Jib Length. b) Boom Angle. c) Radius. d) Boom Length.
- and you are in between boom lengths, you should:
 - a) Use the next longer length. b) Use the next shorter length.

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- c) Use closest to the actual length.
- d) Use the lowest shorter or longer.

If not listed in the load\capacity chart or notes for a telescopic boom crane

- 6) Which of the following is required to be on a mobile telescopic boom crane in order to lift a personnel platform?
 - a) Boom length indicator.
 - b) Radio communication.
 - c) Free fall capability.
 - d) Two operators.
- 7) When operating a rough terrain crane and extending the outrigger beams from the upper cab, you should?
 - a) Boom up to 50 degrees.
 - b) Boom up to 65 degrees.
 - c) Swing over the side with a low boom.
 - d) Make visual contact with beam and jack.
- 8) When a mobile cranes telescopic boom sections are required to be extended equally and they are not, the effect could be which of the following?
 - a) Damage to the longest extended section.
 - b) LMI can give false extension readings.
 - c) Damage to the shortest extended section.
 - d) Hydraulic system can be damaged.
- 9) What item listed below can be removed from a carry deck mobile crane, and continue to be operational?
 - a) Fire extinguisher.
 - b) Load chart.
 - c) Jib/flv/extension.
 - d) Anti two-block device.
- 10) What is the primary reason for lifting off a boom extension mounted on a mobile telescopic boom crane?
 - a) Increase load radius.
 - b) Decrease load radius.
 - c) Increase height.
 - d) Increase reach.

- 11) Traveling a rear engine mounted rough terrain mobile crane, with a suspended load you should position the load:
 - a) over the rear quadrant.
 - b) over the front quadrant.
 - c) secured to the carrier.
 - d) 18 inches off ground.
- 12) A telescopic mobile crane is equipped with an anti two-block lock-out device. When the device is activated which functions will be disabled?
 - a) Hoist, and raise the boom.
 - b) Lower, boom up.
 - c) Hoist, retract the boom.
 - d) Hoist, extend, and lower the boom.
- 13) What device listed below is **NOT** required on telescopic boom mobile cranes manufactured today?
 - a) An outrigger position monitor.
 - b) A drum rotation device.
 - c) Swing path monitor.
 - d) An anti two-block device.
- 14) Backward stability on a rough terrain mobile crane could be a problem when configured in which situation listed below?
 - a) Over the rear at a minimum radius.
 - b) Over the side at a maximum radius.
 - c) Over the rear at a maximum radius.
 - d) Over the side at a minimum radius.
- 15) A telescopic boom mobile crane is going to lift a personnel platform, what is required from the list below to be operational on the crane?
 - a) Rotation resistant wire rope.
 - b) Controlled load lowering.
 - c) Wireless two way radio.
 - d) Anti two-block warning device.

- 16) Which boom configuration can cause the most hazardous boom side-loading condition?
 - a) Short boom with minimum radius.
 - b) Long boom with minimum radius.
 - c) Short boom at 45° angle.
 - d) Long boom at 45° angle.
- 17) According to OSHA when is it safe to hoist loads with a mobile crane below energized power lines?
 - a) If a crane is equipped with an insulating link or proximity alarm.
 - b) If the crane only raises the boom to a maximum angle of 60 degrees.
 - c) If fully extended boom can't reach the prohibited zone.
 - d) The boom is kept 10 feet away from the power line for 360 degrees.
- 18) A crane loses stability when its leverage on the load is:
 - a) Less than the load's leverage on the crane.
 - b) 70% of the load's leverage on the crane.
 - c) 80% of the load's leverage on the crane.
 - d) More than the load's leverage on the crane.
- 19) What is the design factor required when using non-rotating wire rope slings and lifting personnel in a platform suspended from a mobile crane?
 - a) 3.5.
 - b) 5.
 - c) 7.
 - d) 10.
- 20) When should a tag line be used, during the hoisting of material?
 - a) When the rotation of the load would be dangerous.
 - b) When the rigger is not certain of the loads stability.
 - c) When only one signal person is required to signal lift.
 - d) When the lift director leaves the lifting area of the crane.
- 21) When making a lift on outriggers, the maximum ground-bearing pressure occurs in which boom position?
 - a) Over the rear.
 - b) Over the corner.
 - c) Over the front.
 - d) Over the side.

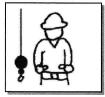
- 22) A mobile crane's jib is offset at 15⁰ versus its original 30⁰ offset, but the boom angle remains unchanged. In this situation, the load radius would:
 - a) increase.
 - b) remains the same.
 - c) decrease.
 - d) cannot be determined.
- 23) Blocking or mats under the outrigger pads/float shall be:
 - a) parallel to the outriggers.
 - b) able to sustain the load and maintain stability.
 - c) perpendicular to the outriggers.
 - d) at least three times the pad/float area.
- 24) When a telescopic boom extension is offset from the main boom, the crane's capacity normally will be:
 - a) increased.
 - b) reduced.
 - c) not effected.
 - d) normal.
- 25) On mobile cranes the boom angle indicator indicates what to the operator?
 - a) Radius of the boom to ground.
 - b) Angle of boom to horizontal.
 - c) Angle of boom to vertical.
 - d) Axis of tipping from centerline.
- 26) If working near power lines and using a tag line, which type of rope is least conductive to electricity?
 - a) Cotton.
 - b) Nylon.
 - c) Hemp.
 - d) Polypropylene.
- 27) Which of the following regulations listed below governs the lifting of personnel with a mobile crane in construction?
 - a) ASME B30.5
 - b) OSHA 1926.1431
 - c) OSHA 1910.1155
 - d) ASME B30.3

- 28) Backward stability of a mobile crane is tested in which configuration listed below?
 - a) Basic boom at maximum angle with maximum load.
 - b) Maximum boom at maximum angle with maximum load.
 - c) Basic boom at minimum angle with no load.
 - d) Basic boom at maximum angle with no load.
- 29) On mobile truck cranes operating with outriggers retracted, the least stable position is when the boom is directly over the:
 - a) front.
 - b) rear.
 - c) side.
 - d) corner.
- When a rough-terrain crane is working on tires, backward tipping is most likely to occur when lifting which configuration?
 - a) Side quadrant at a short radius.
 - b) Side quadrant at a long radius.
 - c) Rear quadrant at a long radius.
 - d) Rear quadrant at a short radius.
- 31) When traveling a rough terrain mobile crane with a suspended load, which of the following is the most important consideration?
 - a) Ensuring that at least two hand-held tag lines are used.
 - b) Raising the load to avoid load contact with the crane.
 - c) Boom low as possible with the load close to the surface.
 - d) Keeping the load above the eye level for visibility.
- 32) When retracting the boom on a telescopic mobile crane, the hook block and load will move in what direction?
 - a) Side.
 - b) Up.
 - c) Down.
 - d) Out.

- 33) Rough terrain mobile crane capacities are generally greater over the:
 - a) front.
 - b) rear.
 - c) right.
 - d) left.
- 34) Mobile truck crane capacities are generally greater over the:
 - a) front.
 - b) rear.
 - c) right.
 - d) side.
- 35) Select the correct OSHA Standard Method Hand Signal that matches the illustration.
 - a) Lower boom.
 - b) Extend boom.
 - c) Retract boom.
 - d) Raise boom.

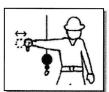


- 36) Select the correct OSHA Standard Method Hand Signal that matches the illustration.
 - a) Raise boom, lower load.
 - b) Retract boom.
 - c) Lower boom and raise load.
 - d) Hoist.
- 37) Select the correct OSHA Standard Method Signal that matches the illustration.

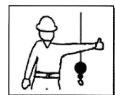


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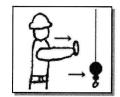
- a) Lower boom.
- b) Lower boom and raise load.
- c) Raise boom and lower load.
- d) Lower.



- 38) Select the correct OSHA Standard Method Hand Signal that matches the illustration.
 - a) Hoist.
 - b) Lower boom.
 - c) Raise boom.
 - d) Swing.



- 39) Select the correct OSHA Standard Method Hand Signal that matches the illustration.
 - a) Trolley travel.
 - b) Wheel travel.
 - c) Swing.
 - d) Stop.



- 40) Select the correct OSHA Standard Method Hand Signal that matches the illustration.
 - a) Swing.
 - b) Hoist.
 - c) Move slowly.
 - d) Lower.

