

1. When extending or setting an outrigger from the upper cab, the outrigger is not visible to you, what needs to be done?
 (A) Have a spotter watch for you (B) Walk around and look for yourself.
 (C) Swing the crane over the side so you can see the outrigger. (D) Extend it very fast.
2. Who is responsible to assign the signal person?
 (A) Crane operator (B) Rigger
 (C) Lift director (D) Supervisor
3. A safety factor of ____ must be maintained on all wire rope slings:
 (A) 3.5 (B) 4
 (C) 5 (D) 4.5
4. You have completed your daily inspection and found the hook throat opening to be greater than 15 percent, what should you do?
 (A) Use the crane first and then tag it out of service (B) Repeat the daily inspection procedure
 (C) Use the crane anyway, because you need to move the load (D) Tag the crane out of service and report the defect to your supervisor
5. When using a load/capacity chart, what does the term jib angle to ground refer to?
 (A) main boom angle plus jibs offset (B) main boom plus the length of the jib
 (C) main boom angle minus the jibs offset (D) The jibs offset
6. The lever on the far left of most telescopic cranes is:
 (A) boom up (B) boom extends
 (C) boom down (D) boom swing
7. In order to control the drift of the load, the operator must:
 (A) allow load to touch the ground (B) determine wind direction
 (C) add extra tag lines (D) keep the boom tip over the load

Tower Crane Operator

8. _____ allows the rotation of the boom.

- (A) Motor
- (B) Rotex gear
- (C) Jib
- (D) Pump

9. A qualified crane operator shall have use of the following:

- (A) Valid Michigan driver's license
- (B) Vision required for a valid Michigan driver's license.
- (C) Use of all four limbs AND Vision required for a valid Michigan driver's license.
- (D) Use of all four limbs

10. Maintenance personnel are permitted to operate the crane only when:

- (A) winds are less than 35 kph
- (B) it is a light load
- (C) performing their duties
- (D) the operator is not available

11. The bottom block is a very important component of an overhead crane. Which other component is directly connected to the bottom block?

- (A) Limit switch
- (B) Sheaves
- (C) Sheaves and Hook
- (D) Hook

12.



What is the meaning of the hand signal shown?

- (A) Boom down
- (B) Dog everything
- (C) Slew
- (D) Rise the hoist

Tower Crane Operator

995. A crane that is not placed directly over a load to be lifted is known as _____.
 (A) jerking the load (B) none
 (C) side loading (D) back loading
996. What is the maximum length of time that an anti-two block device can go without being inspected by a qualified person?
 (A) One to twelve month interval. (B) Semi quarterly
 (C) Daily to monthly interval (D) Quarterly
997. When fluid is subjected to _____ it is pushed into the cylindrical chamber which gives the ram gets a push in the upward direction.
 (A) Force (B) Pressure
 (C) Momentum (D) Acceleration
998. When hoisting, a sudden start or stop produces a:
 (A) None (B) Static load
 (C) Dynamic load (D) Either
999. On who's recommendation should a preventive maintenance program be set up?
 (A) Crane manufacturer or qualified person (B) companies supervisor
 (C) master mechanic or lead engineer (D) crane operator
1000. To avoid the crane from stalling, the engine RPM must be at _____?
 (A) 5000 RPM (B) Minimum RPM
 (C) Maximum RPM (D) Idle condition
1001. Before stowing stabilizer, the spin lock must be?
 (A) Disengages (B) Engages
 (C) Unlocked (D) Removed

Tower Crane Operator

1002. While inspecting rotation resistant wire rope, what is one technique you should perform while making your inspection?

- (A) Replace wire rope annually regardless of inspections.
- (B) Open the wire rope up with a small spike to inspect the core
- (C) Measure the O.D. wear on regular basis
- (D) Make a bend in the wire rope while holding it up to your ear, bend cable length back and forth to while listening for cracking noises

1003. Preferably the tightening torque shall be applied to the:

- (A) nut
- (B) shaft
- (C) bolt
- (D) washer

1004. A windshield that is cracked is okay as long as?

- (A) It is not okay.
- (B) It is written up to be fixed.
- (C) The mechanic says it is safe to operate if he is qualified.
- (D) It does not create any apparent visible distortion of vision for the operator of the crane.

1005. When is side pulling allowed in safe crane operations?

- (A) Never
- (B) Always
- (C) Sometimes
- (D) Only if established by a qualified person

1006. If the jib is erected but not being used to lift the load, you should make a deduction from the gross capacity listed on the load chart based on:

- (A) the difference between the cranes actual weight and it's effective weight
- (B) effective weight of the jib
- (C) actual weight of the jib
- (D) nothing, since the jib is not in use

1007. When picking on rubber, what happens?

- (A) The tires will be overloaded.
- (B) Radius decreases.
- (C) Boom angle decreases.
- (D) Boom angle increases.

Tower Crane Operator

1008. It is not recommended to use slings below a ____ angle.

A 60 °

B 35 °

C 45 °

D 30 °