

Indicative MCQ Bank – Crane Driver Syllabus

1. An overhead crane that consists of parallel runways with a travelling bridge is called –
 - a. Gantry Crane
 - b. Bridge Crane**
 - c. Road Mobile Crane
 - d. Monorail Crane

2. A type of crane where a horizontal beam extends to lift and move a load along the beam is –
 - a. Road Mobile crane
 - b. Monorail Crane
 - c. Jib Crane**
 - d. Bridge Crane

3. What is the hand signal to raise the boom of a mobile crane?
 - a. Thumb up, clenched fist.**
 - b. Index finger up
 - c. Two hands, thumbs pointing toward each other, clenched fists.
 - d. None of above

4. If a load is to be winched across a flat concrete floor, it should be placed on a skid which has ____ on its underneath side to provide the least friction.
 - a. Aluminum.
 - b. Wood**
 - c. Steel
 - d. Rubber.

5. What is the maximum line pull for a 5-ton snatch block?
 - a. 2.5 Ton**
 - b. 10 Ton
 - c. 5 Ton
 - d. 15 Ton

6. Cranes that have been sitting idle for a period of 1 year or more, should have-
 - a. Changing of all motion parts before entering service.
 - b. No inspection.
 - c. Periodic Inspection before entering service.**
 - d. None of above.

7. Communication for moving Hoist upwards is -
 - a. With forearm vertical, fore finger pointing up, move hand in small horizontal circle.**
 - b. With arm extended downward, fore finger pointing down, move hand in small horizontal circle.
 - c. With Shouting up and up.
 - d. None of above.



20/11/19

44/1

8. Communication for moving Hoist downwards is -

- a. With forearm vertical, fore finger pointing up, move hand in small horizontal circle.
- b. With arm extended downward, fore finger pointing down, move hand in small horizontal circle.**
- c. With Shouting up and up.
- d. None of above.

9. Standard Signal for **Emergency stop** is -

- a. With forearm vertical, fore finger pointing up, move hand in small horizontal circle.
- b. With arm extended downward, fore finger pointing down, move hand in small horizontal circle.
- c. Both arms extended, palms down, move arms back and forth horizontally.**
- d. Arm extended, palm up, move arm back and forth horizontally.

10. Standard Signal to **Move slowly** is-

- a. With arm extended downward, fore finger pointing down, move hand in small horizontal circle.
- b. Both arms extended, palms down, move arms back and forth horizontally.
- c. Arm folded, palm down, move are back and forth horizontally.
- d. Use one hand to give any motion signal and place other hand motionless in front of hand giving the motion signal.**

11. A type of crane that is built upon a bridge-like overhead structure is-

- a. Jib Crane.
- b. Gantry Crane.**
- c. Road Mobile Crane.
- d. Rubber Tyre Gantry.

12. Preventive Maintenance is

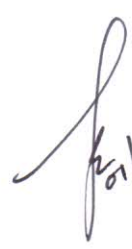
- a. maintenance that is conducted before an issue is identified.**
- b. maintenance that is conducted after an issue is identified.
- c. maintenance that is conducted after accident.
- d. none of the above.

13. Cranes shall be operated only by the following qualified persons:

- a. designated persons
- b. trainees under the direct supervision of a designated person
- c. maintenance and test personnel.
- d. Any of above.**

14. A crane that is shutdown for various reasons should be

- a. locked out and tagged out.**
- b. sold out.
- c. kept open.
- d. painted black.


20/11/19

44/2

15. Load markings are posted on
- All sides of the crane and on the hoist block.**
 - Workshop notice board.
 - main gate of workshop
 - maintenance register.
16. The employee that uses the hoist to lift, lower, and move a load by means of an overhead crane.
- Hoist operator**
 - Assistant Works Manager
 - Safety officer
 - Supervisor
17. The employee that is responsible for balancing and securing the load to the hook, and will direct during the lift is called –
- Hoist Operator
 - Rigger**
 - Crane Driver
 - Works Manager
18. Day-to-Day inspections should include:
- inspect the wire rope for abnormalities and/or damage.
 - inspect the block and hook for any cracks or damage.
 - visually inspect limit switches for abnormalities and test for proper functionality.
 - all of above.**
19. A portion /section of a rope is a section of the rope that has lost its circular form is called-
- core protrusion
 - flattened portion**
 - kink
 - none of above
20. Important factor (s) while attaching the load is-
- use appropriate sling/hardware (work load limit)
 - sling angle
 - center of gravity alignment
 - all of above.**
21. Lifting Factors while handling the load include –
- size, weight, and center of gravity of the load.
 - the rated capacity of the sling.
 - the number of sling legs & angle the sling makes with the horizontal line..
 - all of above.**

2011/11/19

44/3

22. The use of two slings, each supporting the same amount of weight and having the same support angle results in
- a. unequal distribution of the load weight.
 - b. equal distribution of the load weight.**
 - c. depends upon type of slings.
 - d. none of the above
23. Maximum wear limitation of hooks and shackles is?
- a. 5%.
 - b. 10%**
 - c. 15%.
 - d. 20%
24. Which washer is used for locking?
- a. Plain.
 - b. Locking.**
 - c. Spring.
 - d. Round.
25. The beam which is fixed at one end and free at other end is called –
- a. Simple supported beam
 - b. Fixed beam
 - c. Overhanging beam
 - d. Cantilever beam**
26. Which angle from horizontal will produce the greatest tension in a sling leg.
- a. 75 Degree.
 - b. 60 Degree.
 - c. 45 Degree.
 - d. 30 Degree**
27. A Crane Driver while working must follow safety norms/requirements for safety.
- a. in-correct.
 - b. never
 - c. correct**
 - d. a & b above
28. Material of chain slings in DMW
- a. stainless steel.
 - b. alloy steel.**
 - c. copper.
 - d. brass.

20/11/19

44/4

29. Material of wire rope slings in DMW

- a. Stainless Steel.
- b. Alloy Steel.**
- c. Copper.
- d. Brass.

30. Wire rope sling is manufactured from

- a. Jute.
- b. Pipes.
- c. Wires.**
- d. Balls.

31. Chain slings is manufactured from

- a. Pipes
- b. Wires
- c. Plates
- d. Metallic rings**

32. Should Crane operator follow the signal of Rigger?

- a. never.
- b. sometimes.
- c. always.**
- d. none of the above

33. Types of slings used in DMW are.

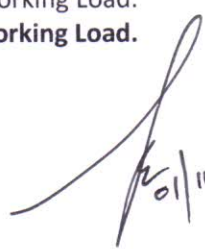
- a. Chain slings
- b. Wire rope slings.
- c. Polyester web slings.
- d. All of the above.**

34. Chain slings are tested & certified as per Factory act.

- a. once a year.**
- b. daily.
- c. weekly.
- d. no need.

35. Annual testing of chain slings is done with load at

- a. 200 % of Safe Working Load.
- b. 180% of Safe Working Load.
- c. 150 % of Safe Working Load.
- d. 125% of Safe Working Load.**


20/11/15

44/5

36. Annual testing of tackles is done with load at

- a. 200 % of Safe Working Load.
- b. 180% of Safe Working Load.
- c. 150 % of Safe Working Load.
- d. **125% of Safe Working Load.**

37. Safe working limit of slings

- a. **defines the maximum load that should be lifted with the sling.**
- b. is the limit at which slings are tested.
- c. is decided by the rigger.
- d. none of the above.

38. Whether slings & ropes can be used whose due date of testing has expired.

- a. can be used always.
- b. can be used up to one month after expiry.
- c. **never be used.**
- d. none of the above.

39. Whether newly purchased sling / rope can be used without test certificate.

- a. **never**
- b. yes
- c. Supervisor can allow.
- d. none of the above.

40. Warning device (s) that help (s) bring attention to people in the area of the crane being in operation-

- a. manually operated gong
- b. power-operated bell, siren, or horn
- c. rotating beacon & strobe light
- d. **all of above.**

41. Hand signals during operation are used when –

- a. when operator is deaf.
- b. **voice communications cannot be heard.**
- c. when rigger is dumb.
- d. none of above.


2011/11/19

44/6

42. _____ is used to douse general fire?

- a. **Fire extinguisher.**
- b. Life Guard.
- c. Alcohol.
- d. Air blowing.

43. Overhead lifting devices built on order must be?

- a. stamped by a professional engineer (P.E).
- b. built by a qualified fabricator.
- c. tested to 125% of intended capacity.
- d. **all of above.**

44. What is meant by first-aid?

- a. **preliminary treatment of a victim by first aid-trained person before doctor.**
- b. first person available at site.
- c. prepare a proper sequence of operations.
- d. care of a victim after treatment by doctor.

45. The most effective way to improve safety in vast organization like Railways is to –

- a. ignore small acts of negligence by the staff.
- b. annual checking of records.
- c. **educate the staff at all levels regarding safe practices.**
- d. punishing defaulting staff.

46. The best way of avoiding accident is –

- a. doing work leisurely.
- b. adopting one's own methods.
- c. **observing safety rules related to job, machine and workplace.**
- d. using mobile phone.

47. What is name of PPE which is used by Crane Driver during working to protect his foot.

- a. Sports Shoes.
- b. **Industrial Safety shoes.**
- c. Slippers.
- d. None of the above.

48. At a time Crane Driver should accept signal from –

- a. all riggers at site.
- b. **only rigger engaged with his crane.**
- c. anybody working at site.
- d. his supervisor only.


20/11/15

44/7

49. Crane driver should accept Emergency stop from

- a. all riggers at site.
- b. only rigger engaged with his crane.
- c. **anybody working at site.**
- d. his supervisor only.

50. What precaution should be taken to lift a lengthy load.

- a. hooks of sling with multi legs should be directly engaged at different location on the load.
- b. **spread bar should be used to engage hooks of multi leg slings at suitable loading points of the load.**
- c. spread bar should be used to engage directly the load.
- d. none of the above.

51. What are the signs of overloading of wire rope sling

- a. opening up, distortion or cracking of the hook.
- b. distortion and wear of links or closing of thimble.
- c. **(a) & (b) above.**
- d. none of above.

52. To which motion of crane, the under mentioned signal pertains:

- Fore arm vertical, Forefinger pointing up & move hand in small horizontal circular motion.
- a. emergency stop
- b. **hoist load.**
- c. lower load.
- d. none of above.

53. While lifting component from machine table, which motion of hoist should be used to ensure safety.

- a. fast motion
- b. **micro motion**
- c. L.T. motion
- d. C.T. motion

54. What is full form of abbreviation L.T., pertaining to E.O.T. crane

- a. Limited Travel
- b. **Longitudinal Travel**
- c. Long Travel
- d. Lengthy Travel

 12/11/19

44/8

55. What is full form of abbreviation C.T., pertaining to E.O.T. crane

- a. Complete travel
- b. Common Travel
- c. Close Travel
- d. **Cross Travel.**

56. What is full form of abbreviation A.H., pertaining to E.O.T. crane

- a. Additional handle
- b. **Auxiliary Hoist**
- c. Additional Hoist
- d. None.

57. Crane Driver must know the contact number of Safety Officer of DMW.

- a. **yes**
- b. not required.
- c. may be.
- d. none of above

58. Crane Driver must know the contact number of Ambulance Post of DMW.

- a. **yes**
- b. not required.
- c. may be.
- d. none of above.

59. What is the full form of E.O.T pertaining to Crane?

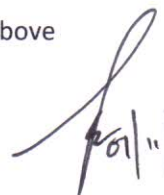
- a. Emergency Operating Crane
- b. Electrical Over bridge Crane
- c. **Electric Overhead Crane**
- d. None of above.

60. What is the full form of SWL pertaining to Crane?

- a. Scheduled Work Load
- b. **Safe Working Load**
- c. Standard Work Load
- d. None of the above

61. Which of the following does not affect the capacity of a wire rope sling?

- a. Sling Angle
- b. **Thimble in sling eye**
- c. D/d Ratio
- d. None of the above

 20/11/19

62. To which motion of crane, the under mentioned signal pertains

- Arm downward, forefinger pointing down and move hand in small horizontal circular motion
- a. Longitudinal Travel
- b. Cross Travel
- c. **Lower Load**
- d. Hoist Load

63. To which motion of crane, the under mentioned signal pertains

- Rapid jerking, Hitch hiking motion in direction of travel.
- a. Longitudinal Travel
- b. **Cross Travel**
- c. Lower Load
- d. Hoist Load

64. To which motion of crane, the under mentioned signal pertains

- Arm extended, palm down & move arm sideways, rapidly back & forth
- a. **Longitudinal Travel**
- b. Cross Travel
- c. Lower Load
- d. Hoist Load

65. To which motion of crane, the under mentioned signal pertains

- Both arms extended, palms down & move both arms sideways rapidly back & forth.
- a. Longitudinal Travel
- b. **Emergency Stop**
- c. Lower Load
- d. Hoist Load

66. Over travelling of E.O.T crane in L.T Motion is controlled by –

- a. **Lever Type Safety Limit switch**
- b. Rotary Type Safety Limit switch
- c. Gravity Type Safety Limit switch
- d. None of the above

67. Over travelling of E.O.T crane in C.T Motion is controlled by –

- a. **Lever Type Safety Limit switch**
- b. Rotary Type Safety Limit switch
- c. Gravity Type Safety Limit switch
- d. None of the above

 20/11/19

44/10

68. Over travelling of E.O.T crane in Hoist Motion is controlled by –

- a. Lever Type Safety Limit switch
- b. Rotary Type Safety Limit switch**
- c. Gravity Type Safety Limit switch
- d. None of the above

69. If Rotary Type Safety Limit switch fails, Over travelling of E.O.T crane in Hoist Motion is controlled by

- a. Lever Type Safety Limit switch
- b. Rotary Type Safety Limit switch
- c. Gravity Type Safety Limit switch**
- d. None of the above

70. A large size Red Button is provided on electric panel in driver cabin of EOT Crane for-

- a. Normal operation of crane
- b. Switching OFF electrical supply of a particular motion
- c. Emergency Switching OFF electrical supply of whole crane**
- d. None of the above

71. Actuation of Gravity Type Safety Limit switch of E.O.T. Crane facilitates:

- a. Normal operation of crane
- b. Switching OFF electrical supply of a particular motion
- c. Emergency Switching OFF electrical supply of whole crane**
- d. None of the above

72. Giving electrical supply to electric motor of electro-hydraulic thruster brake for L.T Motion of EOT Crane, facilitates:

- a. Stopping L.T Motion in particular direction
- b. Stopping C.T Motion in particular direction
- c. Open brakes and permit L.T Motion in particular direction**
- d. None of the above

73. Giving electrical supply to electric motor of electro-hydraulic thruster brake for C.T Motion of EOT Crane, facilitates:

- a. Stopping C.T Motion in particular direction
- b. Stopping L.T Motion in particular direction
- c. Open brakes and permit C.T Motion in particular direction**
- d. None of the above


01/11/19

44/11

74. Giving electrical supply to electric motor of electro-hydraulic thruster brake for Main Hoist of EOT Crane, facilitates:
- Stopping C.T Motion in particular direction
 - Stopping L.T Motion in particular direction
 - Open brakes and permit motion of main hoist in particular direction**
 - None of the above
75. What type of safety precautions should be taken by Crane driver while parking an E.O.T crane after completion of shift?
- Raise all hooks to- but not through- limit switches
 - Place all controls in OFF position
 - All above
 - None of above
76. End stoppers on both ends of overhead gantry rails are provided for -
- Stopping over travel of C.T. of E.O.T crane in relevant direction
 - Stopping over travel of L.T. of E.O.T crane in relevant direction**
 - Stopping over travel of Hoist of E.O.T crane in relevant direction
 - None of the above
77. End stoppers on both ends of C.T. gantry rails of E.O.T crane are provided for -
- Stopping over travel of C.T. of E.O.T crane in relevant direction**
 - Stopping over travel of L.T. of E.O.T crane in relevant direction
 - Stopping over travel of Hoist of E.O.T crane in relevant direction
 - None of the above
78. What is the full form of abbreviation M.H., pertaining to E.O.T. Crane
- Material Handling
 - Mini Hoist
 - Main Hoist**
 - Main Handle
79. What is the full form of abbreviation A.H., pertaining to E.O.T. Crane
- Additional Handle
 - Auxiliary Hoist**
 - Additional Hoist
 - None


20/11/19

44/12

80. What precaution should be taken to avoid jerks during hoisting of load with Crane

- a. **Hook of the snatch block of crane should be centered vertically on CG of the Load.**
- b. Hook of the snatch block of crane should be used for taper lifting of the Load.
- c. All legs of the sling should be unequal in length.
- d. None of the above.

81. Driver should warn the persons, working/standing in the bay of crane movement, by sounding

- a. Whistle
- b. **Electric bell of the crane**
- c. Hooting by mouth
- d. None

82. What is the function of Dead Man Switch in Master Controller of EOT Crane?

- a. **Crane will not move in any motion without pressing Dead man switch.**
- b. Crane will move automatically without any operator.
- c. L.T & C.T will work simultaneously.
- d. None of above

83. Reject the sling if its hook found twisted from the plane of the unbent hook

- a. 5 %
- b. 10%
- c. 8 %
- d. **More than 15%**

84. What are the signs of overloading of wire rope sling?

- a. Opening up, distortion or cracking of the hook
- b. Distortion and wear of links or closing of the thimble
- c. **Both of above**
- d. None of above

85. What are the defects sufficient to reject Alloy Steel Chain Slings?

- a. Defective or questionable welds
- b. Bending or elongation of chain links
- c. Missing or removed identification tags
- d. **All of above**


20/11/15

86. Which of the following routine check should be done by Crane Driver at the start of each shift?

- a. Operate empty hook till it actuates the upper limit switch
- b. Operate hoist and trolley brakes, ensure smooth movement
- c. **Both a & b above**
- d. None of the above

87. Which of the following routine check should be done by Crane Driver at the start of each shift?

- a. Check for twisted, broken or kinked cables or chains
- b. Observe correct drum spooling as the hook is raised
- c. Master controller is in rest /zero position
- d. **All of the above**

88. Which of the following routine check should be done by Crane Driver at the start of each shift?

- a. Inspect for deformed, cracked or stretched hooks
- b. Inspect for serviceable safety latches
- c. Check for oil leakages
- d. **All of the above**

89. During Load testing of a Crane

- a. The hoist, trolley and crane should be operated a number of times at various positions
- b. The test load should be transported by the trolley and bridge over the full length of the crane
- c. To ensure that Safe working load lift.
- d. **All of the above**

90. What type of check should be conducted by Crane Driver before driving an E.O.T. Crane?

- a. Ensure all emergency disconnects are known
- b. Inspect all electrical controls for proper operation
- c. **Both of a & b above**
- d. None of the above

91. What type of preventive measures should be taken by Crane driver while driving E.O.T crane?

- a. Never allow co-worker between a fixed object and a load
- b. Always ensure that load being lifted is not more than Safe Working Load of the Crane
- c. Always position hook of the Crane directly over load before lifting
- d. **All of above**


20/11/19

44/14

92. What are the safe working rules for safety in driving an E.O.T. Crane?

- a. Always keep suspended loads clear of employees
- b. Always keep suspended loads clear of all obstructions
- c. Follow the instructions of Rigger attached with crane
- d. **All of above**

93. What are the safe working rules for safety in driving an E.O.T. Crane?

- a. Always keep hands and finger clear of un-tensioned loads
- b. Always pad or protect slings from sharp edges of the load
- c. Always think before you affect a load
- d. **All of the above**

94. What type of check should be conducted by Crane Driver before driving an E.O.T. Crane?

- a. Always test brakes by a short lift to ensure control
- b. Check warning devices and signals before use
- c. All above
- d. **None of above**

95. What type of safety precautions should be taken by Crane driver while driving E.O.T crane?

- a. Move loads only after being signaled by the designated, qualified rigger
- b. Never carry load over workers
- c. All above
- d. **None of above**

96. What type of safety precautions should be taken by Crane driver while driving E.O.T crane?

- a. Never carry load past workers (they must yield right of way)
- b. Riggers must keep line-of-sight with the operator
- c. All above
- d. **None of above**

97. What type of safety precautions should be taken by Crane driver while driving E.O.T crane?

- a. Never allow rides on loads or hooks
- b. Never allow unauthorized persons to operate Crane
- c. All above
- d. **None of above**


P. 51/11/14

44/15

98. What type of safety precautions should be taken by Crane driver while driving E.O.T crane?

- a. Always position the hook directly over the load before lifting the load off of a floor
- b. Riggers must watch the load.
- c. All above
- d. None of above

99. What type of safety precautions should be taken by Crane driver while driving E.O.T crane?

- a. Crane drivers must watch riggers
- b. Know your travel path in advance of the lift
- c. All above
- d. None of above

100. What type of safety precautions should be taken by Crane driver while driving E.O.T crane?

- a. Know where are you going to set the load down
- b. Will the new location support the weight?
- c. All above
- d. None of above

Note: This technical MCQ is indicative only.


01/11/19