

PRACTICE EXAM 7: NAEC CERTIFIED ELEVATOR TECHNICIAN SIMULATION (160 QUESTIONS)

This expanded practice exam contains 160 multiple-choice questions modeled proportionally on the NAEC CET content outline. The official CET certification examination contains 140 questions, is open book, and allows 6 hours. Select the single best answer for each question. A scaled score of 300 on the official 100-500 scale is required to pass the certification examination.

1. During safety service, a technician recommends: 'Ask another worker to watch the controller.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Secure the elevator against movement using the prescribed lockout/tagout procedure
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

2. During safety service, a technician recommends: 'Wrap the area with ordinary tape and continue.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Remove the cord from service and tag it for repair or disposal
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

3. During safety service, a technician recommends: 'Lean a closed stepladder against the entrance.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced

- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. Use an inspected ladder on a firm level surface with three-point contact

4. During safety service, a technician recommends: 'Depend on the building sprinkler system alone.' Which response provides the best technical direction?

- A. Establish hot-work controls, remove or shield combustibles, and maintain a fire watch
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

5. During safety service, a technician recommends: 'Step over it until scheduled maintenance.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Isolate the area, identify the substance, and follow the applicable spill procedure
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

6. During safety service, a technician recommends: 'The leads are long enough to reach both terminals.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. The meter, leads, category rating, and range are suitable and undamaged
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

7. During safety service, a technician recommends: 'Set tools on the handrail when both hands are needed.' Which response provides the best technical direction?

- A. Use secured tool storage and account for tools before moving the car

- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

8. During safety service, a technician recommends: 'Operate slowly while another person observes.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Keep equipment de-energized until the guard is properly reinstalled

9. During safety service, a technician recommends: 'Reading prints inside the machine room.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Exposure to an unprotected hoistway opening where a fall can occur
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

10. During safety service, a technician recommends: 'To prove the disconnect handle is mechanically tight.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. To verify absence of voltage and confirm the correct energy source was isolated

11. During safety service, a technician recommends: 'Allow any worker to operate controls when ready.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Designate one person to direct movement and require clear confirmation before each command
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

12. During safety service, a technician recommends: 'Hearing protectors with a high rating.' Which response provides the best technical direction?

- A. Safety glasses with appropriate side protection
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

13. During safety service, a technician recommends: 'Spray general-purpose cleaner inside the cabinet.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Stop operation safely, isolate energy as appropriate, and investigate the source
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

14. During safety service, a technician recommends: 'They are needed mainly to reserve workspace for tools.' Which response provides the best technical direction?

- A. They must prevent people from entering the fall zone, not merely warn them
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

15. During safety service, a technician recommends: 'The shortest route regardless of overhead clearance.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. Verified load weight, center of gravity, path, and rated capacity of each device

16. During safety service, a technician recommends: 'To keep lubricants near the controller cabinet.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. To permit safe access, operation, and escape during electrical work
- D. Postpone evaluation until a later maintenance visit

17. During safety service, a technician recommends: 'Pull the person away immediately with bare hands.' Which response provides the best technical direction?

- A. De-energize the source without directly touching the person, then summon emergency help
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

18. During safety service, a technician recommends: 'Route temporary cords across the doorway.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Keep travel paths clear and clean leaked oil promptly using the approved method
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

19. During safety service, a technician recommends: 'Leave inspection controls selected for the next visit.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. Confirm guards, circuits, tools, personnel, and operating modes are restored to safe condition

20. During hoistways service, a technician recommends: 'Carry normal suspended load instead of the ropes.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Guide the car and counterweight along their intended vertical paths
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

21. During hoistways service, a technician recommends: 'Excessive hydraulic oil temperature.' Which response provides the best technical direction?

- A. Misalignment, unequal shoe adjustment, or a related guiding problem
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

22. During hoistways service, a technician recommends: 'They provide normal lighting inside the car.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. They prevent normal car movement unless landing doors are closed and locked
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

23. During hoistways service, a technician recommends: 'The cable forms a smooth free-hanging loop.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. The cable rubs a fixed hoistway member during car travel
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

24. During hoistways service, a technician recommends: 'Reduce electrical noise in position circuits.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Restrict access to the counterweight's path and crushing zone

25. During hoistways service, a technician recommends: 'Offset joints compensate for rope stretch.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Discontinuities can cause vibration, guide wear, and poor ride quality
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

26. During hoistways service, a technician recommends: 'The main-line voltage for the entire building.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. The landing vane, selector target, or position reference at that floor

27. During hoistways service, a technician recommends: 'Use any portable household pump without inspection.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Identify the source, control electrical exposure, and arrange approved removal
- D. Postpone evaluation until a later maintenance visit

28. During hoistways service, a technician recommends: 'It allows landing doors to remain partially open.' Which response provides the best technical direction?

- A. It prevents interference, impact, and trapping throughout the full travel
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

29. During hoistways service, a technician recommends: 'The lobby pushbutton at the main floor.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. Fixed hoistway equipment near that elevation and the moving components passing it

30. During hoistways service, a technician recommends: 'Measure passenger load inside the car.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Initiate stopping near the terminal and protect against travel beyond the normal limit
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

31. During hoistways service, a technician recommends: 'Debris prevents condensation on equipment.' Which response provides the best technical direction?

- A. Vibration can dislodge objects and cause falling-object damage or injury
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

32. During hoistways service, a technician recommends: 'Normal motor cooling in the machine room.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Protection against exposure to the hoistway space during leveling or rescue conditions
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

33. During general maintenance items service, a technician recommends: 'The age of the building alone.' Which response provides the best technical direction?

- A. Equipment condition, usage, environment, manufacturer guidance, and code requirements
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

34. During general maintenance items service, a technician recommends: 'Readings replace functional testing of safety devices.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Trends reveal gradual deterioration and provide a traceable service history
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

35. During general maintenance items service, a technician recommends: 'Mix available lubricants to improve viscosity.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Use the specified lubricant in the correct amount at the intended points
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

36. During general maintenance items service, a technician recommends: 'Bridge the fuse temporarily during diagnosis.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Find and correct the overcurrent cause before replacing the fuse again

37. During general maintenance items service, a technician recommends: 'It removes the need to measure clearances.' Which response provides the best technical direction?

- A. It exposes cracks, wear patterns, loose fasteners, and leakage paths
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

38. During general maintenance items service, a technician recommends: 'A clean housing with normal temperature.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Persistent roughness, excessive play, heat, or noise after correct lubrication
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

39. During general maintenance items service, a technician recommends: 'Higher cost always indicates correct suitability.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Dimensions, ratings, materials, and performance must remain compatible with the system
- D. Postpone evaluation until a later maintenance visit

40. During general maintenance items service, a technician recommends: 'Return service immediately after tightening one connection.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Repeat the triggering conditions and verify reliable operation through multiple cycles
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

41. During general maintenance items service, a technician recommends: 'Label it and leave it for future troubleshooting.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. Remove it under controlled conditions, restore the intended circuit, and test operation

42. During hydraulic elevators service, a technician recommends: 'Carry the car load through suspension ropes.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Direct and regulate oil flow to control starting, speed, leveling, and stopping
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

43. During hydraulic elevators service, a technician recommends: 'A properly adjusted door restrictor.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. Air entrainment caused by leakage, low oil level, turbulence, or return-line conditions

44. During hydraulic elevators service, a technician recommends: 'Only the car operating panel lamps.' Which response provides the best technical direction?

- A. Valve leakage, cylinder leakage, piping leakage, or another loss of pressure
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

45. During hydraulic elevators service, a technician recommends: 'Warm oil mechanically locks landing doors.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Viscosity changes affect leakage, valve response, efficiency, and leveling

46. During hydraulic elevators service, a technician recommends: 'Bypass the main disconnect during rescue.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Limit uncontrolled downward movement following a major hydraulic line failure
- D. Postpone evaluation until a later maintenance visit

47. During hydraulic elevators service, a technician recommends: 'Run the pump continuously to stabilize pressure.' Which response provides the best technical direction?

- A. Secure the car, isolate energy, and safely relieve stored hydraulic pressure
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

48. During hydraulic elevators service, a technician recommends: 'A brighter car light during upward travel.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. A gravel-like noise with unstable flow caused by inadequate inlet pressure
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

49. During hydraulic elevators service, a technician recommends: 'It prevents all temperature changes in the oil.' Which response provides the best technical direction?

- A. Contamination can damage pumps and valves and obstruct small control passages
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

50. During controls service, a technician recommends: 'Select decorative lighting colors in the car.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Permit operation only when monitored protective conditions are satisfied

51. During controls service, a technician recommends: 'A hydraulic cylinder packing leak.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Mechanical binding, damaged armature, or defective contact assembly
- D. Postpone evaluation until a later maintenance visit

52. During controls service, a technician recommends: 'The process mechanically adjusts relay contacts.'
Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. The complete current path reveals where the expected voltage or continuity is lost
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

53. During controls service, a technician recommends: 'The exact mechanical wear of a guide shoe.'
Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Whether the controller recognizes the associated field signal or logic state

54. During controls service, a technician recommends: 'Any higher coil voltage improves reliability.'
Which response provides the best technical direction?

- A. Incorrect ratings can cause failure to pull in, overheating, welding, or insulation damage
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

55. During controls service, a technician recommends: 'The log replaces physical inspection and testing.'
Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. The sequence and conditions can identify the initiating fault and affected subsystem
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

56. During controls service, a technician recommends: 'The car floor covering and wall panels.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Wiring, terminals, interface voltage, and input-channel condition between them
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

57. During electric/traction elevators service, a technician recommends: 'A rack gear fixed to every landing sill.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Frictional engagement between suspension ropes and the drive sheave
- D. Postpone evaluation until a later maintenance visit

58. During electric/traction elevators service, a technician recommends: 'It keeps landing doors electrically locked.' Which response provides the best technical direction?

- A. It distributes load and reduces unequal wear on ropes, sheaves, and hitch components
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

59. During electric/traction elevators service, a technician recommends: 'Provide all acceleration during upward travel.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. Hold the elevator stationary after drive torque has brought it to a controlled stop

60. During electric/traction elevators service, a technician recommends: 'Improved electrical insulation resistance.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Unequal rope seating, altered traction, rope wear, and ride problems
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

61. During electric/traction elevators service, a technician recommends: 'Ventilation keeps landing doors locked.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Restricted airflow raises winding temperature and shortens insulation life
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

62. During electric/traction elevators service, a technician recommends: 'Close the landing doors at every floor.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Offset car and part of the rated load to reduce required drive effort
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

63. During electric/traction elevators service, a technician recommends: 'The hydraulic tank return line.' Which response provides the best technical direction?

- A. Sheave condition, bearings, rope seating, alignment, and rotating balance
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

64. During job site assessment service, a technician recommends: 'A verbal promise that power is available.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Existing conditions, hazards, interfaces, access, dimensions, utilities, and work sequencing

65. During job site assessment service, a technician recommends: 'Drawings always show future modifications.' Which response provides the best technical direction?

- A. Buildings and equipment may differ because of tolerances, alterations, or inaccurate records
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

66. During job site assessment service, a technician recommends: 'To replace the need for engineering review.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. To determine applicable permits, inspections, adopted codes, and acceptance requirements

67. During job site assessment service, a technician recommends: 'The brand of tenant furniture.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Restricted entrances, floor loading limits, overhead clearances, and delivery routes
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

68. During job site assessment service, a technician recommends: 'Occupants can operate the elevator during repairs.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Noise, dust, access, egress, and public protection must be controlled
- D. Postpone evaluation until a later maintenance visit

69. During job site assessment service, a technician recommends: 'A replacement date without any evidence.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Location, extent, measurements, photographs, operating effects, and responsible notifications
- D. Postpone evaluation until a later maintenance visit

70. During maintenance on electric/traction elevator items service, a technician recommends: 'Reverse the ropes to hide the worn side.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Evaluate against governing removal criteria and replace as required, not merely retension
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

71. During maintenance on electric/traction elevator items service, a technician recommends: 'Oil increases the brake's electrical resistance.' Which response provides the best technical direction?

- A. Oil can reduce friction and compromise stopping or holding performance
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

72. During maintenance on electric/traction elevator items service, a technician recommends: 'Addition of hydraulic oil to the machine.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Inspection of rope and groove wear, traction conditions, alignment, and contamination

73. During maintenance on electric/traction elevator items service, a technician recommends: 'It regulates hydraulic oil viscosity.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Binding can delay application or release and change braking performance
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

74. During maintenance on electric/traction elevator items service, a technician recommends: 'A visual check from across the room only.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Functional stopping and holding tests under the prescribed conditions

75. During maintenance on hydraulic elevator items service, a technician recommends: 'Traction-rope equalization.' Which response provides the best technical direction?

- A. Oil temperature, viscosity effects, valve adjustment, leakage, and pump condition
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

76. During maintenance on hydraulic elevator items service, a technician recommends: 'It prevents air from entering the reservoir.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Oil loss can worsen sealing, contaminate the pit, and affect reliable operation
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

77. During maintenance on hydraulic elevator items service, a technician recommends: 'Set the normal leveling speed.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Confirm excessive system pressure is limited at the specified setting
- D. Postpone evaluation until a later maintenance visit

78. During maintenance on hydraulic elevator items service, a technician recommends: 'Correct rope lubrication.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Thermal degradation or contamination requiring investigation

79. During maintenance on hydraulic elevator items service, a technician recommends: 'That the relief valve has been bypassed.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Correct rating and routing, leak-free connections, clearance, and tested operation
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

80. During special application elevators or other elevators with driving machines service, a technician recommends: 'Assume it operates like a standard traction elevator.' Which response provides the best technical direction?

- A. Identify its drive system, applicable instructions, hazards, and required code provisions
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

81. During special application elevators or other elevators with driving machines service, a technician recommends: 'They allow any unlisted replacement part.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Unique components and operating sequences may not match conventional elevator practice
- D. Postpone evaluation until a later maintenance visit

82. During special application elevators or other elevators with driving machines service, a technician recommends: 'That the drive nut is lubricated with any available oil.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. The approved manual-lowering method, load condition, clear path, and energy isolation
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

83. During special application elevators or other elevators with driving machines service, a technician recommends: 'Hydraulic cylinder packing only.' Which response provides the best technical direction?

- A. Tooth condition, engagement, lubrication, alignment, and mounting security
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

84. During special application elevators or other elevators with driving machines service, a technician recommends: 'Rescue never requires communication.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Entrapment release points, stored energy, access, and manual movement methods differ

85. During car enclosures service, a technician recommends: 'Align the counterweight guide rails.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Detect an obstruction and initiate reopening during the closing cycle

86. During car enclosures service, a technician recommends: 'It controls car ventilation volume.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Unauthorized opening can expose occupants to the hoistway and moving equipment
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

87. During car enclosures service, a technician recommends: 'Incorrect controller line voltage.' Which response provides the best technical direction?

- A. Rattling, sharp edges, panel detachment, or interference with adjacent equipment
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

88. During car enclosures service, a technician recommends: 'Whether the material increases motor speed.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Flame, smoke, weight, attachment, clearance, and applicable code requirements
- D. Postpone evaluation until a later maintenance visit

89. During accessibility devices service, a technician recommends: 'Increase motor torque during leveling.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Provide floor and travel information through more than one sensory mode
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

90. During accessibility devices service, a technician recommends: 'They reduce suspension-rope wear.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection

D. Passengers with limited reach or dexterity must be able to operate them independently

91. During accessibility devices service, a technician recommends: 'Disable the associated floor selection.' Which response provides the best technical direction?

- A. Restore durable, correctly associated tactile identification promptly
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

92. During escalators & moving walks service, a technician recommends: 'Drive the handrail at rated speed.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Provide the transition where step treads enter or leave the landing and limit entrapment gaps
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

93. During escalators & moving walks service, a technician recommends: 'The comparison sets combplate height.' Which response provides the best technical direction?

- A. Excessive mismatch can destabilize passengers who rely on the handrail
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

94. During escalators & moving walks service, a technician recommends: 'Elevator guide-rail alignment.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Passenger awareness of step boundaries and safe foot placement

- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

95. During dumbwaiters & material lifts service, a technician recommends: 'Loads may exceed rated capacity if centered.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. People must never ride in the carrier
- D. Postpone evaluation until a later maintenance visit

96. During dumbwaiters & material lifts service, a technician recommends: 'It improves stopping by adding friction.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. Overload or poor placement can overstress the drive, platform, guides, and braking system

97. During maintenance on escalators (interior & exterior) service, a technician recommends: 'Traction-elevator counterweight balance.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Track alignment, step-chain condition, rollers, clearances, and foreign material

98. During maintenance on escalators (interior & exterior) service, a technician recommends: 'Only that the landing floor is clean.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks

- B. Correct comb engagement and protective-device operation through prescribed testing
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

99. During maintenance on special application elevators or other elevators with driving machines service, a technician recommends: 'Substitute parts based only on physical appearance.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Use the correct manufacturer procedure, qualified personnel, and compatible parts
- D. Postpone evaluation until a later maintenance visit

100. During maintenance on special application elevators or other elevators with driving machines service, a technician recommends: 'To bypass landing-door protection.' Which response provides the best technical direction?

- A. To confirm stored energy, controls, brakes, and descent functions operate when normal power is unavailable
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

101. During safety service, a technician recommends: 'Rely on the stop switch alone.' Which response provides the best technical direction?

- A. Secure the elevator against movement using the prescribed lockout/tagout procedure
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

102. During safety service, a technician recommends: 'Use it only for low-current hand tools.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Remove the cord from service and tag it for repair or disposal
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

103. During safety service, a technician recommends: 'Place blocking under one rail on a slope.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. Use an inspected ladder on a firm level surface with three-point contact

104. During safety service, a technician recommends: 'Wet only the floor directly beneath the weld.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Establish hot-work controls, remove or shield combustibles, and maintain a fire watch
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

105. During safety service, a technician recommends: 'Dilute it immediately with water.' Which response provides the best technical direction?

- A. Isolate the area, identify the substance, and follow the applicable spill procedure
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

106. During safety service, a technician recommends: 'The selector is set to the lowest resistance range.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. The meter, leads, category rating, and range are suitable and undamaged

107. During safety service, a technician recommends: 'Place tools near the car-top edge for visibility.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Use secured tool storage and account for tools before moving the car
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

108. During safety service, a technician recommends: 'Run one normal trip to confirm alignment.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Keep equipment de-energized until the guard is properly reinstalled
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

109. During safety service, a technician recommends: 'Inspecting tools at ground level.' Which response provides the best technical direction?

- A. Exposure to an unprotected hoistway opening where a fall can occur
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

110. During safety service, a technician recommends: 'To discharge every capacitor automatically.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. To verify absence of voltage and confirm the correct energy source was isolated

111. During safety service, a technician recommends: 'Use hand signals without discussing their meaning.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Designate one person to direct movement and require clear confirmation before each command
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

112. During hoistways service, a technician recommends: 'Ventilate the hoistway during normal operation.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Guide the car and counterweight along their intended vertical paths
- D. Postpone evaluation until a later maintenance visit

113. During hoistways service, a technician recommends: 'Correctly balanced loading under all conditions.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Misalignment, unequal shoe adjustment, or a related guiding problem
- D. Postpone evaluation until a later maintenance visit

114. During hoistways service, a technician recommends: 'They support the full weight of each landing door.' Which response provides the best technical direction?

- A. They prevent normal car movement unless landing doors are closed and locked
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

115. During hoistways service, a technician recommends: 'The conductors pass their electrical tests.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. The cable rubs a fixed hoistway member during car travel

116. During hoistways service, a technician recommends: 'Increase traction between ropes and sheave.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Restrict access to the counterweight's path and crushing zone
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

117. During hoistways service, a technician recommends: 'Rough joints improve safety-gear stopping force.' Which response provides the best technical direction?

- A. Discontinuities can cause vibration, guide wear, and poor ride quality
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

118. During hoistways service, a technician recommends: 'The oil viscosity in a traction machine bearing.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. The landing vane, selector target, or position reference at that floor
- D. Postpone evaluation until a later maintenance visit

119. During general maintenance items service, a technician recommends: 'A fixed annual visit for every component.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Equipment condition, usage, environment, manufacturer guidance, and code requirements
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

120. During general maintenance items service, a technician recommends: 'Documentation automatically proves code compliance.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Trends reveal gradual deterioration and provide a traceable service history

121. During general maintenance items service, a technician recommends: 'Lubricate sealed components through any opening.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Use the specified lubricant in the correct amount at the intended points
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

122. During general maintenance items service, a technician recommends: 'Install a larger fuse to prevent another interruption.' Which response provides the best technical direction?

- A. Find and correct the overcurrent cause before replacing the fuse again
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

123. During general maintenance items service, a technician recommends: 'It resets the controller's learned values.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. It exposes cracks, wear patterns, loose fasteners, and leakage paths

124. During general maintenance items service, a technician recommends: 'Manufacturer lubrication completed on schedule.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Persistent roughness, excessive play, heat, or noise after correct lubrication
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

125. During hydraulic elevators service, a technician recommends: 'Store electrical energy for emergency lighting.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Direct and regulate oil flow to control starting, speed, leveling, and stopping
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

126. During hydraulic elevators service, a technician recommends: 'Excessive traction on the drive sheave.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. Air entrainment caused by leakage, low oil level, turbulence, or return-line conditions

127. During hydraulic elevators service, a technician recommends: 'The escalator handrail drive chain.' Which response provides the best technical direction?

- A. Valve leakage, cylinder leakage, piping leakage, or another loss of pressure
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

128. During hydraulic elevators service, a technician recommends: 'Temperature directly changes hoist-rope diameter.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Viscosity changes affect leakage, valve response, efficiency, and leveling
- D. Postpone evaluation until a later maintenance visit

129. During hydraulic elevators service, a technician recommends: 'Vent air from the car enclosure.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Limit uncontrolled downward movement following a major hydraulic line failure
- D. Postpone evaluation until a later maintenance visit

130. During controls service, a technician recommends: 'Store maintenance records independently of power.' Which response provides the best technical direction?

- A. Permit operation only when monitored protective conditions are satisfied
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

131. During controls service, a technician recommends: 'Correct operation of a healthy relay.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Mechanical binding, damaged armature, or defective contact assembly

132. During controls service, a technician recommends: 'Tracing increases the circuit's available current.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. The complete current path reveals where the expected voltage or continuity is lost
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

133. During controls service, a technician recommends: 'The physical strength of a landing sill.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Whether the controller recognizes the associated field signal or logic state

134. During controls service, a technician recommends: 'Ratings affect only the printed label.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Incorrect ratings can cause failure to pull in, overheating, welding, or insulation damage
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

135. During electric/traction elevators service, a technician recommends: 'A rack gear fixed to every landing sill.' Which response provides the best technical direction?

- A. Frictional engagement between suspension ropes and the drive sheave
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

136. During electric/traction elevators service, a technician recommends: 'It keeps landing doors electrically locked.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. It distributes load and reduces unequal wear on ropes, sheaves, and hitch components
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

137. During electric/traction elevators service, a technician recommends: 'Provide all acceleration during upward travel.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Hold the elevator stationary after drive torque has brought it to a controlled stop
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

138. During job site assessment service, a technician recommends: 'The shortest possible material list.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Existing conditions, hazards, interfaces, access, dimensions, utilities, and work sequencing
- D. Postpone evaluation until a later maintenance visit

139. During job site assessment service, a technician recommends: 'Old prints automatically reflect as-built conditions.' Which response provides the best technical direction?

- A. Buildings and equipment may differ because of tolerances, alterations, or inaccurate records
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

140. During job site assessment service, a technician recommends: 'To select the elevator's interior music.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. To determine applicable permits, inspections, adopted codes, and acceptance requirements

141. During maintenance on electric/traction elevator items service, a technician recommends: 'Tighten one rope until all appear equal.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Evaluate against governing removal criteria and replace as required, not merely retension
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

142. During maintenance on electric/traction elevator items service, a technician recommends: 'Oil improves traction-rope groove geometry.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Oil can reduce friction and compromise stopping or holding performance
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

143. During maintenance on electric/traction elevator items service, a technician recommends: 'Immediate increase of motor speed.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Inspection of rope and groove wear, traction conditions, alignment, and contamination

144. During maintenance on electric/traction elevator items service, a technician recommends: 'It establishes guide-rail spacing.' Which response provides the best technical direction?

- A. Binding can delay application or release and change braking performance
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

145. During special application elevators or other elevators with driving machines service, a technician recommends: 'Disable all protective devices to observe movement.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Identify its drive system, applicable instructions, hazards, and required code provisions

146. During special application elevators or other elevators with driving machines service, a technician recommends: 'They replace every adopted safety code.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Unique components and operating sequences may not match conventional elevator practice
- D. Postpone evaluation until a later maintenance visit

147. During special application elevators or other elevators with driving machines service, a technician recommends: 'That passengers can push from the platform.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. The approved manual-lowering method, load condition, clear path, and energy isolation
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

148. During special application elevators or other elevators with driving machines service, a technician recommends: 'Counterweight filler-weight paint.' Which response provides the best technical direction?

- A. Tooth condition, engagement, lubrication, alignment, and mounting security
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

149. During maintenance on hydraulic elevator items service, a technician recommends: 'Only the car wall panels.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks

- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Oil temperature, viscosity effects, valve adjustment, leakage, and pump condition

150. During maintenance on hydraulic elevator items service, a technician recommends: 'It increases the elevator's rated load.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Oil loss can worsen sealing, contaminate the pit, and affect reliable operation
- C. Use the recommendation only during light service during the current inspection
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

151. During car enclosures service, a technician recommends: 'Align the counterweight guide rails.' Which response provides the best technical direction?

- A. Detect an obstruction and initiate reopening during the closing cycle
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

152. During car enclosures service, a technician recommends: 'It controls car ventilation volume.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service
- C. Unauthorized opening can expose occupants to the hoistway and moving equipment
- D. Postpone evaluation until a later maintenance visit

153. During accessibility devices service, a technician recommends: 'Lubricate landing-door tracks.' Which response provides the best technical direction?

- A. Provide floor and travel information through more than one sensory mode
- B. Accept the recommendation without additional checks for the equipment being serviced
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

154. During accessibility devices service, a technician recommends: 'They set hydraulic relief pressure.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Passengers with limited reach or dexterity must be able to operate them independently
- D. Postpone evaluation until a later maintenance visit under normal elevator conditions

155. During escalators & moving walks service, a technician recommends: 'Drive the handrail at rated speed.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks under normal elevator conditions
- B. Use the recommendation only during light service for the equipment being serviced
- C. Postpone evaluation until a later maintenance visit during the current inspection
- D. Provide the transition where step treads enter or leave the landing and limit entrapment gaps

156. During escalators & moving walks service, a technician recommends: 'The comparison sets combplate height.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Excessive mismatch can destabilize passengers who rely on the handrail
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

157. During maintenance on escalators (interior & exterior) service, a technician recommends: 'Traction-elevator counterweight balance.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. Postpone evaluation until a later maintenance visit
- D. Track alignment, step-chain condition, rollers, clearances, and foreign material

158. During maintenance on escalators (interior & exterior) service, a technician recommends: 'Only that the landing floor is clean.' Which response provides the best technical direction?

- A. Correct comb engagement and protective-device operation through prescribed testing
- B. Accept the recommendation without additional checks
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

159. During dumbwaiters & material lifts service, a technician recommends: 'Landing doors may remain open during travel.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the recommendation only during light service
- C. People must never ride in the carrier
- D. Postpone evaluation until a later maintenance visit

160. During maintenance on special application elevators or other elevators with driving machines service, a technician recommends: 'Operate with guards removed to observe every cycle.' Which response provides the best technical direction?

- A. Accept the recommendation without additional checks
- B. Use the correct manufacturer procedure, qualified personnel, and compatible parts
- C. Use the recommendation only during light service
- D. Postpone evaluation until a later maintenance visit

Practice Exam 7: Answer Key and Explanations

- 1. B** — The recommendation should be rejected. Lockout/tagout controls hazardous energy at its source. A stop switch is an operational control, not complete energy isolation, while cones and observers do not prevent unintended energization. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.
- 2. C** — The recommendation should be rejected. Exposed conductors create shock, arc, and fire hazards. Removing the cord from service prevents continued exposure; temporary tape and reduced loading do not restore the cord's listed insulation or mechanical protection. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.
- 3. D** — The recommendation should be rejected. Proper setup and three-point contact reduce tipping and fall risk. Top-cap standing, leaning a closed stepladder, and improvised blocking defeat the ladder's intended geometry and safe-use instructions. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.
- 4. A** — The recommendation should be rejected. Hot-work planning controls sparks, slag, heat transfer, and delayed ignition. A limited wet area, closed doors, or sprinklers alone cannot address concealed combustibles or a fire that begins after welding stops. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.
- 5. C** — The recommendation should be rejected. Unknown liquids can create chemical, electrical, and slip hazards. Identification and the site spill procedure determine suitable protection and cleanup; dilution or covering may spread the material or conceal the hazard. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.
- 6. B** — The recommendation should be rejected. A suitable measurement category, voltage rating, range, and intact leads protect against transient energy and insulation failure. A lit display or convenient lead length does not establish electrical safety; resistance mode on an energized circuit can damage the meter. The technician should confirm the condition by an approved procedure before restoring service.
- 7. A** — The recommendation should be rejected. Secured storage prevents tools from falling into the hoistway or contacting moving equipment. An inventory before movement also prevents forgotten objects from striking structures, damaging equipment, or endangering people below. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.
- 8. D** — The recommendation should be rejected. The guard is an engineered barrier against moving parts. Until it is restored, warning signs, reduced speed, and observation do not provide equivalent protection from entanglement, crushing, or unexpected component failure. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.
- 9. B** — The recommendation should be rejected. An open hoistway presents a potentially fatal fall hazard and requires barriers, restraint, arrest, or another approved control. Closed entrances and ground-level tasks do not create the same exposure. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verify.

10. D — The recommendation should be rejected. A disconnect position or label can be wrong, defective, or associated with another circuit. Testing for absence of voltage verifies isolation; it does not automatically discharge stored energy or perform controller and mechanical checks. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.

11. C — The recommendation should be rejected. A single movement coordinator and closed-loop confirmation prevent conflicting commands and ensure everyone is clear. Uncoordinated operation, undefined signals, and continuous movement increase exposure to crushing and shearing hazards. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verify.

12. A — The recommendation should be rejected. Impact-rated eye protection and side shields intercept particles approaching from the front or side. Headwear, hearing protection, and gloves protect other body areas but do not substitute for eye protection. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.

13. B — The recommendation should be rejected. Overheated insulation can precede arcing, fire, or equipment failure. Safe shutdown and controlled investigation address the source; ventilation, repeated resets, and spraying can mask symptoms or introduce additional hazards. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verify.

14. A — The recommendation should be rejected. An open entrance requires a physical control capable of preventing access. Tape or informal markers may provide notice but can be crossed easily and do not protect distracted occupants or workers. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.

15. D — The recommendation should be rejected. Rigging must be engineered around actual load characteristics and rated equipment. Crew size, route convenience, or paint markings do not establish capacity, stability, or suitability of lifting points. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verify first.

16. C — The recommendation should be rejected. Clear working space reduces contact and arc exposure and preserves an exit path. Using that space for storage obstructs access and can add combustible material near energized equipment. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verify first.

17. A — The recommendation should be rejected. The rescuer must avoid becoming part of the circuit. Removing power or using an approved nonconductive rescue method ends exposure before first aid; direct contact and water can create another casualty. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.

18. C — The recommendation should be rejected. Clear paths and prompt spill control remove common causes of falls. Parts near equipment, crossing cords, and unattended absorbent material create new obstructions and can interfere with emergency access. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verify.

19. D — The recommendation should be rejected. A systematic restoration check catches missing guards, jumpers, tools, people, and improper modes. Full-speed operation or leaving inspection selected before confirming conditions can create unsafe movement or incomplete service. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verify.

20. B — The recommendation should be rejected. Guide rails constrain lateral position and provide surfaces for guiding and safety devices. Suspension members carry the load, the traveling cable supplies circuits, and ventilation is not the rail system's purpose. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function.

21. A — The recommendation should be rejected. One-sided wear indicates uneven contact between the shoe and rail, commonly caused by alignment or adjustment issues. It is unrelated to oil temperature or a lamp circuit and is not evidence of balanced loading. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function.

22. C — The recommendation should be rejected. Interlocks prove the entrance is secured before normal operation, limiting exposure to an open shaft. Speed regulation, door support, and lighting are handled by different systems. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

23. B — The recommendation should be rejected. Contact with fixed equipment can abrade the jacket, stress conductors, and create intermittent faults. A smooth loop and adequate clearance are desired conditions, while electrical continuity alone does not prove proper routing. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function.

24. D — The recommendation should be rejected. The guard separates personnel from a moving mass and its pinch points. It does not alter rope traction, electrical interference, or hydraulic leakage. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

25. B — The recommendation should be rejected. Guide assemblies pass across every joint. Steps or offsets create impact and wear, whereas grounding, safety-gear performance, and rope stretch are addressed through other design and maintenance features. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function. Verify first.

26. D — The recommendation should be rejected. A floor-specific leveling error points to that landing's position target or sensing arrangement. Building voltage, counterweight mass, and machine lubricant would more likely affect multiple landings or overall operation. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function. Verify.

27. C — The recommendation should be rejected. Pit water can energize equipment, corrode components, and conceal floor hazards. Source control and suitable removal equipment are required; car

movement, unverified pumps, or visual clearance do not make the condition safe. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function.

28. A — The recommendation should be rejected. Clearances accommodate normal motion and tolerances without contact. They do not increase rated speed, replace protective circuits, or permit unsafe entrance conditions. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

29. D — The recommendation should be rejected. A location-specific noise suggests physical contact at a fixed elevation. Inspection should compare stationary equipment and the car, cable, or counterweight as they pass; lobby devices and fire alarms do not fit that pattern. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function.

30. B — The recommendation should be rejected. Terminal devices supervise end-of-travel behavior and provide layers of stopping protection. Door locking, load weighing, and lubrication are separate functions. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

31. A — The recommendation should be rejected. Loose items can fall onto the car, machinery, or people and may jam moving components. They provide no legitimate speed, sound, or moisture-control function. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

32. C — The recommendation should be rejected. Fascia and toe guards close hazardous gaps near the entrance when the car is not perfectly level or during restricted movement. They do not affect motor cooling, rope traction, or ventilation. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function.

33. A — The recommendation should be rejected. Effective intervals reflect duty, environment, observed wear, instructions, and mandatory requirements. A single calendar interval, building age, or callback count cannot represent every component's risk and deterioration rate. This distinction matters in general maintenance items work because diagnosis must follow the actual energy path and protective function.

34. B — The recommendation should be rejected. Consistent records allow comparison over time and help distinguish recurring faults from isolated events. Documentation supports, but does not replace, inspection, functional testing, or a compliance determination. This distinction matters in general maintenance items work because diagnosis must follow the actual energy path and protective function. Verify.

35. C — The recommendation should be rejected. Correct products and quantities protect surfaces without contamination or overheating. Mixing products, over-lubricating, or forcing lubricant into sealed

assemblies can damage materials and attract debris. This distinction matters in general maintenance items work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

36. D — The recommendation should be rejected. A fuse responds to abnormal current and should not be defeated or upsized without engineering authorization. Repetition indicates a fault, overload, or wrong rating that requires diagnosis at the source. This distinction matters in general maintenance items work because diagnosis must follow the actual energy path and protective function.

37. A — The recommendation should be rejected. Dirt and oil can conceal defects and distort observations. Cleaning improves inspection quality but does not tighten hardware, change software, or substitute for measurement. This distinction matters in general maintenance items work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

38. B — The recommendation should be rejected. Roughness, looseness, heat, and abnormal noise indicate internal damage or advanced wear. Additional lubricant cannot restore failed rolling surfaces or proper clearances. This distinction matters in general maintenance items work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

39. C — The recommendation should be rejected. Elevator components operate as an integrated safety system. Incorrect geometry, ratings, or materials can change clearances and failure behavior; appearance and price do not establish equivalence. This distinction matters in general maintenance items work because diagnosis must follow the actual energy path and protective function. Verify first.

40. B — The recommendation should be rejected. Recreating the original conditions tests whether the identified cause was actually removed. Multiple cycles improve confidence that the result is stable; clearing records or relying on temporary absence of symptoms is weak evidence. This distinction matters in general maintenance items work because diagnosis must follow the actual energy path and protective function.

41. D — The recommendation should be rejected. A jumper can defeat protective logic and must not remain as an undocumented alteration. Restoring the designed circuit and testing it confirms that the safety function operates as intended. This distinction matters in general maintenance items work because diagnosis must follow the actual energy path and protective function.

42. C — The recommendation should be rejected. The valve meters and routes fluid between the pump, cylinder, and tank to shape car motion. Electrical storage, suspension, and door locking belong to other systems. This distinction matters in hydraulic elevators work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

43. D — The recommendation should be rejected. Entrained air makes oil compressible, producing noise, erratic motion, and poor leveling. It is unrelated to traction and door equipment and should not be

treated as normal expansion. This distinction matters in hydraulic elevators work because diagnosis must follow the actual energy path and protective function. Verify.

44. A — The recommendation should be rejected. Settling indicates hydraulic pressure is escaping or being bypassed. The valve, jack, and piping form the load-supporting hydraulic circuit; lamps, counterweights, and escalator parts do not. This distinction matters in hydraulic elevators work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

45. D — The recommendation should be rejected. Oil viscosity varies with temperature, changing flow and internal leakage. These effects influence motion and component life, not ropes, entrance locks, or enclosure strength. This distinction matters in hydraulic elevators work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

46. C — The recommendation should be rejected. A major line failure can release the pressure supporting the car. The protective valve detects excessive flow or motion and restricts descent; it is not a performance booster or electrical bypass. This distinction matters in hydraulic elevators work because diagnosis must follow the actual energy path and protective function.

47. A — The recommendation should be rejected. Hydraulic pressure stores substantial energy and can inject fluid or move the car. Isolation, support, and controlled pressure relief remove the hazard before a fitting is disturbed. This distinction matters in hydraulic elevators work because diagnosis must follow the actual energy path and protective function. Verify first.

48. B — The recommendation should be rejected. Cavitation forms and collapses vapor cavities at the pump inlet, producing noise, erosion, and reduced delivery. Electrical lighting and guide wear are unrelated indicators. This distinction matters in hydraulic elevators work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

49. A — The recommendation should be rejected. Particles can score surfaces, stick valve elements, and accelerate seal wear. Clean oil supports reliable control but does not change capacity, eliminate testing, or hold temperature constant. This distinction matters in hydraulic elevators work because diagnosis must follow the actual energy path and protective function. Verify first.

50. D — The recommendation should be rejected. The safety circuit places critical contacts and logic in the permission path for movement. If a required condition is not proven, normal operation is inhibited; lighting, torque boosting, and data storage are separate functions. This distinction matters in controls work because diagnosis must follow the actual energy path and protective function.

51. C — The recommendation should be rejected. An energized coil should create magnetic force and move the armature. Failure to transfer points to a mechanical or internal relay problem, not unrelated hydraulic or handrail systems. This distinction matters in controls work because diagnosis must follow the actual energy path and protective function. Verify first.

52. B — The recommendation should be rejected. A circuit operates only when its entire path and required conditions are complete. Systematic tracing localizes opens, incorrect states, and voltage drops without random part replacement. This distinction matters in controls work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

53. D — The recommendation should be rejected. An input indicator reflects electrical or logical recognition, which helps separate field-device, wiring, and software issues. It cannot directly measure mechanical wear, lubricant condition, or structural strength. This distinction matters in controls work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

54. A — The recommendation should be rejected. Coil and contact ratings determine electromagnetic operation, heating, insulation stress, and interrupting capability. Substitution without matching the application can create unreliable control or a fire hazard. This distinction matters in controls work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

55. C — The recommendation should be rejected. Fault chronology provides diagnostic context that may disappear after reset. It guides inspection but does not prove component condition or replace testing. This distinction matters in controls work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

56. B — The recommendation should be rejected. The field device appears to respond, so the signal path to the controller becomes the next diagnostic boundary. Connections, supply references, and the input module can interrupt recognition. This distinction matters in controls work because diagnosis must follow the actual energy path and protective function. Verify first.

57. C — The recommendation should be rejected. The drive sheave transmits torque through friction to the suspension members, moving car and counterweight in opposite directions. Hydraulic, rack, and pneumatic mechanisms describe other arrangements. This distinction matters in electric/traction elevators work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

58. A — The recommendation should be rejected. Unequal tension overloads individual ropes and alters groove loading, accelerating wear and reducing traction consistency. It does not replace guidance, set speed, or control entrances. This distinction matters in electric/traction elevators work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

59. D — The recommendation should be rejected. The drive controls motion and deceleration, while the brake applies to hold the stopped system and serves protective functions. It is not the propulsion, guidance, or door power source. This distinction matters in electric/traction elevators work because diagnosis must follow the actual energy path and protective function.

60. B — The recommendation should be rejected. Groove geometry controls rope support and contact. Wear changes pressure distribution and effective diameters, affecting traction and rope condition; hydraulic and electrical components are unrelated. This distinction matters in electric/traction elevators work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

61. B — The recommendation should be rejected. Motor losses become heat that must be removed. Blocked passages elevate temperature and accelerate insulation aging; ventilation does not affect rope strength, leveling geometry, or locks. This distinction matters in electric/traction elevators work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

62. C — The recommendation should be rejected. Counterbalancing reduces the net load the traction machine must accelerate and lift, improving efficiency and component sizing. It does not operate doors, create hydraulic pressure, or power communications. This distinction matters in electric/traction elevators work because diagnosis must follow the actual energy path and protective function. Verify.

63. A — The recommendation should be rejected. A speed-related repeating vibration points to rotating components and their interfaces. Inspecting the sheave, bearings, ropes, and alignment follows the symptom's frequency; unrelated signaling and other equipment do not. This distinction matters in electric/traction elevators work because diagnosis must follow the actual energy path and protective function.

64. D — The recommendation should be rejected. Modernization succeeds when actual conditions and interfaces are documented before design and staging. Appearance, minimal purchasing, and unverified assumptions do not control fit, safety, or coordination risks. This distinction matters in job site assessment work because diagnosis must follow the actual energy path and protective function. Verify.

65. A — The recommendation should be rejected. Existing installations often depart from original plans. Field verification catches changes and tolerances before fabrication, reducing rework and unsafe interference. This distinction matters in job site assessment work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

66. D — The recommendation should be rejected. The enforcing authority determines the local regulatory path and acceptance process. Early identification prevents missed approvals and incompatible assumptions; it does not govern music, engineering competence, or payroll. This distinction matters in job site assessment work because diagnosis must follow the actual energy path and protective function.

67. B — The recommendation should be rejected. Large and heavy elevator components require a verified route and adequate structural capacity. Decorative details do not determine whether equipment can be delivered and moved safely. This distinction matters in job site assessment work because diagnosis must follow the actual energy path and protective function. Verify first.

68. C — The recommendation should be rejected. Elevator work can affect people beyond the immediate shaft. Planning controls exposure and maintains required access and egress; occupancy never

authorizes unsafe operation or changes component ratings. This distinction matters in job site assessment work because diagnosis must follow the actual energy path and protective function. Verify.

69. C — The recommendation should be rejected. Objective documentation preserves baseline condition, supports engineering decisions, and prevents later disputes. Informal or delayed records lack the detail needed to evaluate causes and scope. This distinction matters in job site assessment work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

70. B — The recommendation should be rejected. Diameter loss indicates material wear and reduced section, which tension adjustment cannot restore. Removal criteria consider measurable condition and must guide replacement. This distinction matters in maintenance on electric/traction elevator items work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

71. A — The recommendation should be rejected. The brake depends on predictable friction. Contamination can cause slip, increased stopping distance, and unreliable holding; electrical resistance, spring strength, and rope grooves are separate matters. This distinction matters in maintenance on electric/traction elevator items work because diagnosis must follow the actual energy path and protective function.

72. D — The recommendation should be rejected. Dust can be generated by abnormal rope or groove wear. Inspection should determine the material and cause before cleaning or adjustment; unrelated speed and door changes could worsen the condition. This distinction matters in maintenance on electric/traction elevator items work because diagnosis must follow the actual energy path and protective function.

73. B — The recommendation should be rejected. Brake parts must move freely through the designed stroke. Dirt, corrosion, or misalignment can prevent full application or release, creating drag or inadequate holding. This distinction matters in maintenance on electric/traction elevator items work because diagnosis must follow the actual energy path and protective function. Verify first.

74. D — The recommendation should be rejected. Adjustment changes a safety-critical mechanical system. Prescribed functional tests confirm release, stopping, and holding behavior; appearance and unrelated door or clock actions cannot verify performance. This distinction matters in maintenance on electric/traction elevator items work because diagnosis must follow the actual energy path and protective function. Verify.

75. A — The recommendation should be rejected. A temperature-dependent symptom points to changes in fluid behavior or internal leakage. Comparing cold and warm operating data helps isolate the hydraulic cause. This distinction matters in maintenance on hydraulic elevator items work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

76. C — The recommendation should be rejected. Persistent leakage is evidence of a seal or surface problem and creates housekeeping and environmental hazards. It should be diagnosed rather than treated

as beneficial lubrication. This distinction matters in maintenance on hydraulic elevator items work because diagnosis must follow the actual energy path and protective function.

77. C — The recommendation should be rejected. The relief valve protects the pressure system from abnormal overpressure. Testing must follow prescribed procedures because arbitrary adjustment can damage equipment or compromise performance. This distinction matters in maintenance on hydraulic elevator items work because diagnosis must follow the actual energy path and protective function. Verify first.

78. D — The recommendation should be rejected. Color and odor changes can indicate overheating, oxidation, or contamination. Oil condition should be assessed with temperature, operating history, and manufacturer guidance rather than assumed normal. This distinction matters in maintenance on hydraulic elevator items work because diagnosis must follow the actual energy path and protective function.

79. B — The recommendation should be rejected. A replacement hose must withstand system pressure and movement without abrasion, kinking, or leakage. Controlled testing confirms installation integrity; appearance and bypassing protection are unsafe substitutes. This distinction matters in maintenance on hydraulic elevator items work because diagnosis must follow the actual energy path and protective function.

80. A — The recommendation should be rejected. Special equipment can use different drives, controls, and safety devices. Correct identification prevents applying procedures or assumptions from an incompatible system. This distinction matters in special application elevators or other elevators with driving machines work because diagnosis must follow the actual energy path and protective function. Verify.

81. C — The recommendation should be rejected. Manufacturer information explains the specific design and service sequence, while codes and competent work still apply. It supports, rather than replaces, regulatory and professional requirements. This distinction matters in special application elevators or other elevators with driving machines work because diagnosis must follow the actual energy path and protective function.

82. B — The recommendation should be rejected. Manual movement can release stored load or bypass normal controls. Following the approved method and controlling access prevent unexpected travel and entrapment. This distinction matters in special application elevators or other elevators with driving machines work because diagnosis must follow the actual energy path and protective function.

83. A — The recommendation should be rejected. The drive transmits load through meshing teeth, so damage, poor alignment, or inadequate lubrication directly affects motion and reliability. Other drive-system checks do not apply. This distinction matters in special application elevators or other elevators with driving machines work because diagnosis must follow the actual energy path and protective function.

84. D — The recommendation should be rejected. A generic rescue action can move equipment unexpectedly or expose passengers to a shaft. Procedures must reflect the actual design, conditions, and authorized steps. This distinction matters in special application elevators or other elevators with driving machines work because diagnosis must follow the actual energy path and protective function.

85. D — The recommendation should be rejected. The device reduces closing impact and entrapment risk by responding to a person or object in the doorway. It does not measure or control unrelated machine systems. This distinction matters in car enclosures work because diagnosis must follow the actual energy path and protective function. Verify first.

86. B — The recommendation should be rejected. Escape openings are for controlled emergency use by authorized personnel. Secure fastening prevents casual access to a hazardous area while preserving the intended rescue function. This distinction matters in car enclosures work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

87. A — The recommendation should be rejected. Enclosure components experience vibration and passenger contact. Loose hardware can create injury and interference hazards even when propulsion remains normal. This distinction matters in car enclosures work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

88. C — The recommendation should be rejected. Interior alterations can affect fire performance, car weight, clearances, and structural attachment. Decorative preference and cost do not establish technical suitability. This distinction matters in car enclosures work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

89. B — The recommendation should be rejected. Multiple communication modes help passengers with different sensory abilities use the elevator independently. Indicators convey information and do not operate propulsion or mechanical components. This distinction matters in accessibility devices work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

90. D — The recommendation should be rejected. Location and operating force directly affect usability. Correct installation supports independent access, while drive and pressure systems are unrelated. This distinction matters in accessibility devices work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

91. A — The recommendation should be rejected. Tactile identification communicates control function to users who cannot rely on print. It must remain legible, securely attached, and correctly paired with its control. This distinction matters in accessibility devices work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

92. C — The recommendation should be rejected. The comb teeth mesh with step cleats at the landing transition. Correct engagement helps prevent objects from entering the machinery space. This distinction matters in escalators & moving walks work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

93. A — The recommendation should be rejected. Passengers expect the handrail to move with the steps. A significant difference can pull the upper body forward or backward and indicates a drive or tension issue. This distinction matters in escalators & moving walks work because diagnosis must follow the actual energy path and protective function.

94. B — The recommendation should be rejected. Visible step boundaries help riders place their feet away from edges and recognize the moving geometry. Damage reduces that safety cue and should be corrected. This distinction matters in escalators & moving walks work because diagnosis must follow the actual energy path and protective function. Verify first.

95. C — The recommendation should be rejected. A dumbwaiter carrier and safeguards are intended for material, not human occupancy. Riding exposes a person to crushing, falls, and inadequate space or protection. This distinction matters in dumbwaiters & material lifts work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

96. D — The recommendation should be rejected. Rated capacity and distribution protect structural and drive components and help keep the carrier stable. Added load does not improve safety and can shift during motion. This distinction matters in dumbwaiters & material lifts work because diagnosis must follow the actual energy path and protective function. Verify.

97. D — The recommendation should be rejected. A pattern across adjacent steps suggests a shared guidance or chain problem rather than isolated cosmetic damage. Inspection follows the load path through tracks, rollers, and clearances. This distinction matters in maintenance on escalators (interior & exterior) work because diagnosis must follow the actual energy path and protective function.

98. B — The recommendation should be rejected. Comb geometry and its protective switch address entrapment at the landing. Functional testing confirms that obstruction or displacement produces the intended stop response. This distinction matters in maintenance on escalators (interior & exterior) work because diagnosis must follow the actual energy path and protective function. Verify first.

99. C — The recommendation should be rejected. Proprietary drives may contain unique load paths, limits, and stored-energy hazards. Design-specific information and parts preserve intended protective functions. This distinction matters in maintenance on special application elevators or other elevators with driving machines work because diagnosis must follow the actual energy path and protective function. Verify.

100. A — The recommendation should be rejected. Emergency systems can deteriorate while unused. Periodic controlled testing reveals battery, valve, brake, or control failures before an actual entrapment or outage. This distinction matters in maintenance on special application elevators or other elevators

with driving machines work because diagnosis must follow the actual energy path and protective function.

101. A — The recommendation should be rejected. Lockout/tagout controls hazardous energy at its source. A stop switch is an operational control, not complete energy isolation, while cones and observers do not prevent unintended energization. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

102. B — The recommendation should be rejected. Exposed conductors create shock, arc, and fire hazards. Removing the cord from service prevents continued exposure; temporary tape and reduced loading do not restore the cord's listed insulation or mechanical protection. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.

103. D — The recommendation should be rejected. Proper setup and three-point contact reduce tipping and fall risk. Top-cap standing, leaning a closed stepladder, and improvised blocking defeat the ladder's intended geometry and safe-use instructions. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

104. C — The recommendation should be rejected. Hot-work planning controls sparks, slag, heat transfer, and delayed ignition. A limited wet area, closed doors, or sprinklers alone cannot address concealed combustibles or a fire that begins after welding stops. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.

105. A — The recommendation should be rejected. Unknown liquids can create chemical, electrical, and slip hazards. Identification and the site spill procedure determine suitable protection and cleanup; dilution or covering may spread the material or conceal the hazard. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.

106. D — The recommendation should be rejected. A suitable measurement category, voltage rating, range, and intact leads protect against transient energy and insulation failure. A lit display or convenient lead length does not establish electrical safety; resistance mode on an energized circuit can damage the meter. The technician should confirm the condition by an approved procedure before restoring service.

107. C — The recommendation should be rejected. Secured storage prevents tools from falling into the hoistway or contacting moving equipment. An inventory before movement also prevents forgotten objects from striking structures, damaging equipment, or endangering people below. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.

108. B — The recommendation should be rejected. The guard is an engineered barrier against moving parts. Until it is restored, warning signs, reduced speed, and observation do not provide equivalent protection from entanglement, crushing, or unexpected component failure. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.

109. A — The recommendation should be rejected. An open hoistway presents a potentially fatal fall hazard and requires barriers, restraint, arrest, or another approved control. Closed entrances and ground-

level tasks do not create the same exposure. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verify.

110. D — The recommendation should be rejected. A disconnect position or label can be wrong, defective, or associated with another circuit. Testing for absence of voltage verifies isolation; it does not automatically discharge stored energy or perform controller and mechanical checks. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function.

111. B — The recommendation should be rejected. A single movement coordinator and closed-loop confirmation prevent conflicting commands and ensure everyone is clear. Uncoordinated operation, undefined signals, and continuous movement increase exposure to crushing and shearing hazards. This distinction matters in safety work because diagnosis must follow the actual energy path and protective function. Verify.

112. C — The recommendation should be rejected. Guide rails constrain lateral position and provide surfaces for guiding and safety devices. Suspension members carry the load, the traveling cable supplies circuits, and ventilation is not the rail system's purpose. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function.

113. C — The recommendation should be rejected. One-sided wear indicates uneven contact between the shoe and rail, commonly caused by alignment or adjustment issues. It is unrelated to oil temperature or a lamp circuit and is not evidence of balanced loading. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function.

114. A — The recommendation should be rejected. Interlocks prove the entrance is secured before normal operation, limiting exposure to an open shaft. Speed regulation, door support, and lighting are handled by different systems. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

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118. C — The recommendation should be rejected. A floor-specific leveling error points to that landing's position target or sensing arrangement. Building voltage, counterweight mass, and machine lubricant would more likely affect multiple landings or overall operation. This distinction matters in hoistways work because diagnosis must follow the actual energy path and protective function. Verify.

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132. B — The recommendation should be rejected. A circuit operates only when its entire path and required conditions are complete. Systematic tracing localizes opens, incorrect states, and voltage drops without random part replacement. This distinction matters in controls work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

133. D — The recommendation should be rejected. An input indicator reflects electrical or logical recognition, which helps separate field-device, wiring, and software issues. It cannot directly measure mechanical wear, lubricant condition, or structural strength. This distinction matters in controls work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

134. C — The recommendation should be rejected. Coil and contact ratings determine electromagnetic operation, heating, insulation stress, and interrupting capability. Substitution without matching the application can create unreliable control or a fire hazard. This distinction matters in controls work

because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

135. A — The recommendation should be rejected. The drive sheave transmits torque through friction to the suspension members, moving car and counterweight in opposite directions. Hydraulic, rack, and pneumatic mechanisms describe other arrangements. This distinction matters in electric/traction elevators work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

136. B — The recommendation should be rejected. Unequal tension overloads individual ropes and alters groove loading, accelerating wear and reducing traction consistency. It does not replace guidance, set speed, or control entrances. This distinction matters in electric/traction elevators work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

137. B — The recommendation should be rejected. The drive controls motion and deceleration, while the brake applies to hold the stopped system and serves protective functions. It is not the propulsion, guidance, or door power source. This distinction matters in electric/traction elevators work because diagnosis must follow the actual energy path and protective function.

138. C — The recommendation should be rejected. Modernization succeeds when actual conditions and interfaces are documented before design and staging. Appearance, minimal purchasing, and unverified assumptions do not control fit, safety, or coordination risks. This distinction matters in job site assessment work because diagnosis must follow the actual energy path and protective function. Verify.

139. A — The recommendation should be rejected. Existing installations often depart from original plans. Field verification catches changes and tolerances before fabrication, reducing rework and unsafe interference. This distinction matters in job site assessment work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

140. D — The recommendation should be rejected. The enforcing authority determines the local regulatory path and acceptance process. Early identification prevents missed approvals and incompatible assumptions; it does not govern music, engineering competence, or payroll. This distinction matters in job site assessment work because diagnosis must follow the actual energy path and protective function.

141. C — The recommendation should be rejected. Diameter loss indicates material wear and reduced section, which tension adjustment cannot restore. Removal criteria consider measurable condition and must guide replacement. This distinction matters in maintenance on electric/traction elevator items work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

142. B — The recommendation should be rejected. The brake depends on predictable friction. Contamination can cause slip, increased stopping distance, and unreliable holding; electrical resistance, spring strength, and rope grooves are separate matters. This distinction matters in maintenance on

electric/traction elevator items work because diagnosis must follow the actual energy path and protective function.

143. D — The recommendation should be rejected. Dust can be generated by abnormal rope or groove wear. Inspection should determine the material and cause before cleaning or adjustment; unrelated speed and door changes could worsen the condition. This distinction matters in maintenance on electric/traction elevator items work because diagnosis must follow the actual energy path and protective function.

144. A — The recommendation should be rejected. Brake parts must move freely through the designed stroke. Dirt, corrosion, or misalignment can prevent full application or release, creating drag or inadequate holding. This distinction matters in maintenance on electric/traction elevator items work because diagnosis must follow the actual energy path and protective function. Verify first.

145. D — The recommendation should be rejected. Special equipment can use different drives, controls, and safety devices. Correct identification prevents applying procedures or assumptions from an incompatible system. This distinction matters in special application elevators or other elevators with driving machines work because diagnosis must follow the actual energy path and protective function. Verify.

146. C — The recommendation should be rejected. Manufacturer information explains the specific design and service sequence, while codes and competent work still apply. It supports, rather than replaces, regulatory and professional requirements. This distinction matters in special application elevators or other elevators with driving machines work because diagnosis must follow the actual energy path and protective function.

147. B — The recommendation should be rejected. Manual movement can release stored load or bypass normal controls. Following the approved method and controlling access prevent unexpected travel and entrapment. This distinction matters in special application elevators or other elevators with driving machines work because diagnosis must follow the actual energy path and protective function.

148. A — The recommendation should be rejected. The drive transmits load through meshing teeth, so damage, poor alignment, or inadequate lubrication directly affects motion and reliability. Other drive-system checks do not apply. This distinction matters in special application elevators or other elevators with driving machines work because diagnosis must follow the actual energy path and protective function.

149. D — The recommendation should be rejected. A temperature-dependent symptom points to changes in fluid behavior or internal leakage. Comparing cold and warm operating data helps isolate the hydraulic cause. This distinction matters in maintenance on hydraulic elevator items work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

150. B — The recommendation should be rejected. Persistent leakage is evidence of a seal or surface problem and creates housekeeping and environmental hazards. It should be diagnosed rather than treated

as beneficial lubrication. This distinction matters in maintenance on hydraulic elevator items work because diagnosis must follow the actual energy path and protective function.

151. A — The recommendation should be rejected. The device reduces closing impact and entrapment risk by responding to a person or object in the doorway. It does not measure or control unrelated machine systems. This distinction matters in car enclosures work because diagnosis must follow the actual energy path and protective function. Verify first.

152. C — The recommendation should be rejected. Escape openings are for controlled emergency use by authorized personnel. Secure fastening prevents casual access to a hazardous area while preserving the intended rescue function. This distinction matters in car enclosures work because diagnosis must follow the actual energy path and protective function. Verification prevents unsafe recurrence.

153. A — The recommendation should be rejected. Multiple communication modes help passengers with different sensory abilities use the elevator independently. Indicators convey information and do not operate propulsion or mechanical components. This distinction matters in accessibility devices work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

154. C — The recommendation should be rejected. Location and operating force directly affect usability. Correct installation supports independent access, while drive and pressure systems are unrelated. This distinction matters in accessibility devices work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

155. D — The recommendation should be rejected. The comb teeth mesh with step cleats at the landing transition. Correct engagement helps prevent objects from entering the machinery space. This distinction matters in escalators & moving walks work because diagnosis must follow the actual energy path and protective function. The technician should confirm the condition by an approved procedure before restoring service.

156. B — The recommendation should be rejected. Passengers expect the handrail to move with the steps. A significant difference can pull the upper body forward or backward and indicates a drive or tension issue. This distinction matters in escalators & moving walks work because diagnosis must follow the actual energy path and protective function.

157. D — The recommendation should be rejected. A pattern across adjacent steps suggests a shared guidance or chain problem rather than isolated cosmetic damage. Inspection follows the load path through tracks, rollers, and clearances. This distinction matters in maintenance on escalators (interior & exterior) work because diagnosis must follow the actual energy path and protective function.

158. A — The recommendation should be rejected. Comb geometry and its protective switch address entrapment at the landing. Functional testing confirms that obstruction or displacement produces the intended stop response. This distinction matters in maintenance on escalators (interior & exterior) work because diagnosis must follow the actual energy path and protective function. Verify first.

159. C — The recommendation should be rejected. A dumbwaiter carrier and safeguards are intended for material, not human occupancy. Riding exposes a person to crushing, falls, and inadequate space or protection. This distinction matters in dumbwaiters & material lifts work because diagnosis must follow the actual energy path and protective function. Verification prevents recurrence.

160. B — The recommendation should be rejected. Proprietary drives may contain unique load paths, limits, and stored-energy hazards. Design-specific information and parts preserve intended protective functions. This distinction matters in maintenance on special application elevators or other elevators with driving machines work because diagnosis must follow the actual energy path and protective function. Verify.