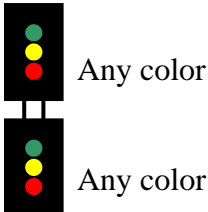


# MARICOPA LIVE STEAMERS ENGINEER'S TEST

Revised 06/2007



**Pick the best answer to the question based on the information available to all members in the Safety & Operating Rules for the Maricopa Live Steamers Railroad Heritage Preservation Society.**

1. Who is ultimately responsible for the safe operation of the train? (511)
  - A. The engineer.
  - B. The Safety Committee.
  - C. The Stationmaster.
  - D. The Conductor.
  
2. The double signal on the right: (353)
  - A. Top board is for mainline and bottom board is for diverging route.
  - B. Is upside down.
  - C. Top board is for diverging route and bottom board is for mainline.
  - D. Indicates 3-track operation.



Any color

Any color
  
3. All signal aspects on the Adobe Western Railroad: (351)
  - A. Tell the Conductor how to run the train.
  - B. Are guidelines to the engineer as to when to proceed.
  - C. Are absolute and are to be treated accordingly.
  - D. Can be ignored if you think they are malfunctioning.
  
4. Arms fully extended and swung violently down from above shoulder height perpendicular to the tracks mean: (314)
  - A. Washout / Emergency Stop.
  - B. Proceed.
  - C. Back-up.
  - D. Reduce speed.
  
5. Multiple short blasts on the whistle or horn - "oooooooo" - mean: (328,334)
  - A. Approaching station.
  - B. Flagman return to train.
  - C. Flagman protect the rear of train.
  - D. Warning to people or animals on the track. General alarm or emergency.
  
6. A "BLUE" indicator light, flag, or tag indicates that the piece of equipment: (344)
  - A. Needs to be moved because it is blocking the area.
  - B. Must not be moved or coupled to.
  - C. Can only be moved by the owner.
  - D. Must be checked by the Safety Committee.

7. An arm raised or lowered vertically indicates: (311)
- Stop.
  - Proceed.
  - Back-up.
  - Reduce speed.
8. The signal on the right indicates: (342,353)
- Signal is about to turn red.
  - Clear to proceed.
  - Proceed with caution being prepared to stop at the next signal.
  - Proceed on diverging track.
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- Yellow ON
9. All visiting engineers shall be given written and/or oral instructions on the track and signal systems and basic safety prior to operating on the railroad by: (514)
- Any certified engineer.
  - Any certified member.
  - The Safety Committee.
  - The Stationmaster.
10. The final authority as to who may ride a train is the: (516)
- Safety Committee.
  - Stationmaster.
  - Conductor.
  - Engineer.
11. When a dispatcher is on duty, all trains in an un-signaled area: (535)
- Tend to run slower because of waiting for clearance from the dispatcher.
  - Must have a conductor.
  - Must have radio contact with the dispatcher or be a second section to a train that has such radio contact.
  - Can proceed provided the engineer deems it safe.
12. The signal on the right indicates: (343,353)
- Stop and then proceed with caution.
  - Stop and request permission from dispatcher.
  - The signal is malfunctioning and you can proceed at your own risk.
  - Stop and remain stopped until signal changes aspect or permission to pass is given.
- 
- Red - ON
13. Two long blasts on the whistle or horn followed by a short blast followed by a long blast - “> > o >” - means: (327)
- Approaching station.
  - Flagman return to train.
  - Warning to people and animals on the track. General alarm or emergency.
  - Approaching public crossing, tunnel, area of restricted visibility, or another train.

14. All trains shall be operated by or under the direct supervision of. (531)
- A certified engineer.
  - Any regular member.
  - Any Safety Committee member.
  - None of the above.
15. Steam boiler test certificates shall be accepted as valid by the MLS if: (251)
- They have been issued within the past 12 months.
  - They have been issued by a recognized live steam organization.
  - Neither A or B because the engineer is ultimately responsible for the equipment's safety.
  - Both A and B.
16. The double signal on the right indicates: (353)
- Proceed after full stop.
  - Proceed on mainline.
  - Proceed on diverging route.
  - Proceed at reduced speed.
- The image shows two vertical signal lights. The top light has three circles, with the bottom one filled with red and the two above it white. To its right is the text 'Red - ON'. The bottom light also has three circles, with the top one filled with green and the two below it white. To its right is the text 'Green - ON'.
17. All mainline switches shall be left: (534)
- With the switch handle to the right.
  - In their normal, operating position.
  - In the same position as they are found.
  - So the next train will follow.
18. One short blast on the whistle or horn - “o“ - means (321)
- Proceed. Answer to any signal not otherwise provided for.
  - Apply brakes. Stop.
  - Call for signals.
  - When standing, back-up.
19. During periods of limited visibility, trains shall have: (401)
- A white light showing to the front.
  - A red light showing to the rear.
  - Lights bright enough to permit safe operation.
  - All of the above.
20. Arms held horizontally with short up and down motion of the hands means: (312)
- Stop.
  - Proceed.
  - Back-up.
  - Reduce speed.
21. Individuals may operate equipment while under the influence of any substances adversely affecting his/her ability to safely operate that equipment. (210)
- True
  - False

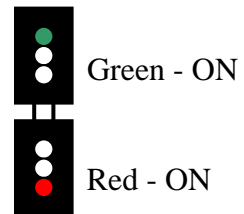
22. Locomotives and other power units shall be equipped with: (225)
- A. A fire extinguisher.
  - B. An audible warning device loud enough to permit safe operation.
  - C. A first aid kit.
  - D. All of the above.

23. Engineers operating a train at night shall carry: (518)
- A. A fire extinguisher.
  - B. A personal defense device such as pepper spray.
  - C. A working flashlight for personal safety.
  - D. An appropriate set of emergency tools.

24. Who can operate equipment in an unsafe manner? (205)
- A. Anyone as long as they are alone on the track.
  - B. A Safety Committee member to verify a safety issue.
  - C. No one shall operate equipment in an unsafe manner.
  - D. A qualified visitor as long as it is on his or her own equipment.


25. Two short blasts on the whistle or horn - "oo" - mean: (322,331)
- A. Proceed. Answer to any signal not otherwise provided for.
  - B. Apply brakes. Stop.
  - C. Call for signals.
  - D. When standing, back-up.

26. The double signal on the right indicates: (353)
- A. Proceed after a full stop.
  - B. Proceed on mainline.
  - C. Proceed on diverging route.
  - D. Proceed at reduced speed.



27. Arms swung at arms length down from shoulder height, perpendicular to the track or any object waved violently on or near the track mean: (313)
- A. Stop.
  - B. Proceed.
  - C. Back-up.
  - D. Reduce speed.

28. Who may declare a piece of club equipment unsafe and affix a "Bad Order" card to the equipment? (413)
- A. Any qualified engineer.
  - B. Any member of the Safety Committee.
  - C. Any member.
  - D. Any member of the public.

29. An arm swung vertically in circles perpendicular to the track means: (315)
- Stop.
  - Proceed.
  - Back-up.
  - Reduce speed.
30. The signal on the right indicates: (353)
- Enter interlocking area at reduced speed if track clear.
  - Prepare to stop short of possible obstructions.
  - Dispatcher not on duty.
  - All of the above.
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Red flashing
31. Three short blasts on the whistle or horn - “ooo” - mean: (323,332)
- Proceed. Answer to any signal not otherwise provided for.
  - Apply brakes. Stop.
  - Call for signals.
  - When standing, back up.
32. Engineers may allow anyone to ride between themselves and the controls of their engine as long as their ability to control the train is not restricted. (515)
- True
  - False
33. When operating MLS equipment, junior members shall: (521)
- Only operate at night.
  - Not worry about signals.
  - Exceed 10 MPH when operating club equipment.
  - Be supervised by a qualified, adult member.
34. The public shall receive: (633)
- A BoD approved safety briefing before leaving the station.
  - A button as a token of appreciation for riding the train.
  - A safe and comfortable ride.
  - All of the above.
35. To operate a public train, the minimum age for an engineer is: (650)
- 13.
  - 18.
  - 21.
  - No minimum as long as the engineer is certified.
36. The maximum speed when operating public trains is: (632)
- Determined by the engineer.
  - 5 miles per hour.
  - Determined by the Stationmaster.
  - None of the above.

37. The Conductor shall have available: (663)
- A. A whistle.
  - B. A light or red flag.
  - C. A radio.
  - D. All of the above.
38. How many public passengers may ride a straddle car? (634)
- A. As many as will fit on the car so long as the maximum gross weight is under 300 lbs.
  - B. As many as will fit on the car.
  - C. A maximum of 3 per car.
  - D. A maximum of 6 per car.
39. The Conductor shall be responsible for: (662)
- A. Monitoring safe operating conditions.
  - B. Notifying the engineer when unsafe conditions arise.
  - C. Both A and B.
  - D. Neither A or B.
40. The Stationmaster shall be responsible for: (670)
- A. Train movement in station areas.
  - B. Recording the number of public passengers each run.
  - C. The safe loading/unloading of passengers.
  - D. All of the above.
41. Pregnant women shall not be permitted to ride public trains. (640)
- A. True
  - B. False
42. Under normal circumstances, the public shall be loaded/unloaded only at: (637)
- A. Stationmaster selected locations.
  - B. Designated station areas.
  - C. Bridge crossings.
  - D. Engineer selected locations.
43. Certified engineers 13 through 17 years of age may: (519)
- A. Pull the public as long as it is with their own equipment.
  - B. Not throw switches from their normal setting.
  - C. Operate a train during the time that a public train is operating.
  - D. Operate a train during the time that a public train is operating as long as they are on a different track.
44. All riders on regular public trains must be capable of walking to, boarding, and exiting riding cars under their own ability. (638)
- A. True
  - B. False

45. Trains carrying the public shall be operated only by: (631)
- A. Anyone approved by the Stationmaster on duty.
  - B. A certified engineer.
  - C. A certified engineer with a certified Conductor aboard.
  - D. Regular members as long as they use their own equipment.
46. When carrying the public, riding cars must: (620)
- A. Have seats installed so as to facilitate safety.
  - B. Have trucks that provide safe, stable operation.
  - C. Have bolsters that provide 3 or 4-point suspension.
  - D. All of the above.
47. How many passenger cars are allowed in a public train when the safety siren is functioning and in use? (634)
- A. 7.
  - B. 21.
  - C. Unlimited.
  - D. Determined by the Stationmaster.
48. Individuals who do not comfortably and safely fit in or on riding cars are: (639)
- A. Provided an individual riding car for maximum safety.
  - B. Not to be carried as public passengers.
  - C. Asked to leave the train park.
  - D. Embarrassed and harassed.
49. The public shall ride on: (610)
- A. Member equipment only.
  - B. MLS riding cars only.
  - C. Member equipment and MLS riding cars.
  - D. None of the above.
50. Certified engineers under 13 years of age may: (520)
- A. Pull the public as long as it is with their own equipment.
  - B. Not throw switches from their normal setting.
  - C. Not operate a train on mainline track during the time that a public train is operating.
  - D. Operate a train during the time that a public train is operating as long as they are on a different branch.