

PATH Train Engineer Recertification Practice Exam (Sample)

Study Guide



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SAMPLE

Questions

SAMPLE

- 1. What does the Zone Controller do in the context of train operations?**
 - A. Manages train schedules**
 - B. Determines track maintenance needs**
 - C. Guarantees no obstruction between the train and track circuit boundary**
 - D. Evaluates passenger load**
- 2. What color is the speed dial background when an over-speed is detected?**
 - A. Green**
 - B. Red**
 - C. Yellow**
 - D. Blue**
- 3. When is it permissible to pass a signal?**
 - A. When there are no visible obstructions**
 - B. Under signal numbers 279, 101, 253**
 - C. When traveling at or below the speed limit**
 - D. During daylight hours only**
- 4. Which procedure should be followed for stopping a PA5 train safely?**
 - A. Move Master Controller to Brake position immediately**
 - B. Place Reverser switch to the Neutral position**
 - C. Move Master Controller handle to the Full Service position**
 - D. Activate the emergency brake system**
- 5. What is the status of 17 track in Harrison Yard?**
 - A. It is currently under construction**
 - B. It does not exist**
 - C. It is reserved for maintenance**
 - D. It has been renamed**

- 6. What is the maximum brake cylinder pressure for PA4 trains?**
- A. 0-60 psi**
 - B. 0-62 psi**
 - C. 0-70 psi**
 - D. 0-75 psi**
- 7. What is the primary function of the Train Operation Display (TOD) when leaving a station?**
- A. To display live video feed of the surroundings**
 - B. To indicate system status and commands**
 - C. To monitor other train movements**
 - D. To provide weather updates**
- 8. What does a speed dial exclusion refer to in ATC operations?**
- A. A manual override by the operator**
 - B. A threshold for sudden speed increases**
 - C. A service brake application triggered by the car-borne ATC**
 - D. An indication of reduced passenger load**
- 9. When responding to a Brake Pipe rupture, what is the first step?**
- A. Check for activated emergency brake valve**
 - B. Make sure the deadman valve is not operated**
 - C. Turn off the blowers**
 - D. Move valve into FULLSERVICE (charge) position**
- 10. What procedure should be followed regarding personnel before moving car(s) on a shop track?**
- A. Personnel should always be on the equipment**
 - B. Personnel must be removed from the track area**
 - C. Personnel can stay if tools are secured**
 - D. Personnel should signal the movement**

Answers

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1. C
2. C
3. B
4. C
5. B
6. B
7. B
8. C
9. B
10. B

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Explanations

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1. What does the Zone Controller do in the context of train operations?

- A. Manages train schedules**
- B. Determines track maintenance needs**
- C. Guarantees no obstruction between the train and track circuit boundary**
- D. Evaluates passenger load**

The role of the Zone Controller in train operations is primarily about ensuring the safe and efficient movement of trains along the tracks. Specifically, the Zone Controller is responsible for guaranteeing that there are no obstructions between the train and the track circuit boundary. This function is critical as it helps maintain safe distances between trains and ensures that the signaling system operates correctly, allowing trains to proceed without encountering obstacles that could lead to accidents or delays. This responsibility is part of a broader safety management strategy within rail operations, where maintaining a clear and safe path for trains is vital to both operational efficiency and passenger safety. The Zone Controller's vigilance in monitoring the track conditions and ensuring no obstructions ensures that the overall system runs smoothly and reduces the risk of incidents on the rail network. The other options pertain to different operational aspects, such as train scheduling, maintenance assessments, or evaluating passenger loads, which are important but are not the specific function of the Zone Controller in the context of ensuring safe train operations related to track boundaries.

2. What color is the speed dial background when an over-speed is detected?

- A. Green**
- B. Red**
- C. Yellow**
- D. Blue**

When an over-speed is detected, the speed dial background turns yellow. This yellow color is a clear visual indicator to the train engineer that the train is exceeding the allowable speed limit. It serves as a warning that immediate attention is necessary to either reduce the train's speed or to confirm that the situation is being monitored appropriately. The use of yellow as a cautionary signal is a commonly established practice in many operational contexts, including train controls, where it indicates that an action needs to be taken to mitigate potential safety risks. This visual cue helps ensure that engineers are constantly aware of the status of their train operation, promoting safety and adherence to regulations.

3. When is it permissible to pass a signal?

- A. When there are no visible obstructions
- B. Under signal numbers 279, 101, 253**
- C. When traveling at or below the speed limit
- D. During daylight hours only

Passing a signal generally requires specific conditions to ensure safety and compliance with operational protocols. The mention of specific signal numbers, such as 279, 101, and 253, indicates that these signals may represent particular instructions or conditions that allow for a signal to be passed under controlled circumstances. For instance, some signals may indicate a permissive aspect that allows train operators to proceed under certain conditions, such as slow speed or when authorized by a dispatcher. Understanding the context of these signal numbers is crucial for safe train operations, as they provide guidance that is based on established rules and procedures within the rail system. The other options do not encompass the regulatory framework necessary for passing a signal. Simply having no visible obstructions does not equate to the safe passing of a signal, as signals are in place for a reason beyond visibility. Speed limits alone do not dictate whether a signal can be passed; rather, specific instructions indicated by the signals themselves must be followed. Lastly, daylight conditions do not inherently affect the rules governing signal passage, as operational safety protocols are the priority regardless of the time of day.

4. Which procedure should be followed for stopping a PA5 train safely?

- A. Move Master Controller to Brake position immediately
- B. Place Reverser switch to the Neutral position
- C. Move Master Controller handle to the Full Service position**
- D. Activate the emergency brake system

The procedure for stopping a PA5 train safely involves moving the Master Controller handle to the Full Service position. This action engages the train's service brakes in a controlled manner, allowing for a gradual and safe reduction in speed. Utilizing the Full Service position is critical in managing deceleration, which helps prevent abrupt stops that could destabilize the train or discomfort passengers. The approach with the Full Service position ensures that the brakes apply pressure steadily, which is essential for maintaining control over the train as it slows down. This method is part of the standard operational protocols designed to ensure the safety of both the train crew and passengers. Utilizing other options, while they may seem relevant, wouldn't contribute to as effective or safe a stopping procedure in normal operating conditions. For example, immediate application of the brake system could lead to a sudden stop, which is not advisable unless an emergency situation arises. The Reverser switch being placed in Neutral does not contribute to controlling the brakes and could leave the train in an uncontrolled state. Finally, activating the emergency brake should only be reserved for true emergencies due to its abruptness and potential for causing severe jolts. Thus, using the Full Service position of the Master Controller is the appropriate method for safely stopping a PA5 train.

5. What is the status of 17 track in Harrison Yard?

- A. It is currently under construction**
- B. It does not exist**
- C. It is reserved for maintenance**
- D. It has been renamed**

The status of 17 track in Harrison Yard is that it does not exist. This information is relevant because it reflects the actual layout and operational status of the yard, which is crucial for train engineers in understanding track availability and safety protocols. Knowing that a specific track does not exist helps prevent confusion and ensures that train operations are conducted smoothly without the risk of reliance on an imagined or incorrectly identified track. When training as a PATH train engineer, it is essential to be aware of the infrastructure, including the specifics of track designations. Familiarity with track designations aids in operational efficiency and enhances safety during train movements, contributing to the overall reliability of train services in the area.

6. What is the maximum brake cylinder pressure for PA4 trains?

- A. 0-60 psi**
- B. 0-62 psi**
- C. 0-70 psi**
- D. 0-75 psi**

The maximum brake cylinder pressure for PA4 trains is specified as 0-62 psi. This value is crucial for ensuring the proper functioning and safety of the train's braking system. Having the correct brake cylinder pressure is essential for achieving effective braking performance, which is directly tied to the train's ability to stop safely and efficiently. Specifying 62 psi as the maximum ensures that the brakes engage adequately under various operational conditions without exceeding safe pressure limits, which could lead to brake failure or hazardous situations. The design and operational protocols for PA4 trains are based on this pressure requirement to maintain reliability and safety standards. Understanding the operational parameters of the trains, such as the maximum brake cylinder pressure, is vital for engineers and operators as it affects their decision-making and safety compliance in the field.

7. What is the primary function of the Train Operation Display (TOD) when leaving a station?

- A. To display live video feed of the surroundings**
- B. To indicate system status and commands**
- C. To monitor other train movements**
- D. To provide weather updates**

The primary function of the Train Operation Display (TOD) when leaving a station is to indicate system status and commands. This vital information helps train engineers understand the operational parameters of the train and the status of the train system in real-time. The TOD displays crucial data such as speed, track conditions, and any commands or alerts pertinent to the train's operations. By providing information about the system status, the TOD ensures that the train engineer can make informed decisions to safely and efficiently operate the train. This functionality is essential for maintaining safety and adherence to operational protocols, especially during critical phases such as departing from a station, where situational awareness is key. Other options, while they might seem relevant, do not encompass the primary role of the TOD. For example, live video feeds, monitoring other train movements, or providing weather updates do not directly pertain to the immediate operational needs of the train engineer as they prepare to leave a station. Instead, the TOD focuses on system diagnostics and command execution, which are fundamental to ensuring safe departures and maintaining efficient train operations.

8. What does a speed dial exclusion refer to in ATC operations?

- A. A manual override by the operator**
- B. A threshold for sudden speed increases**
- C. A service brake application triggered by the car-borne ATC**
- D. An indication of reduced passenger load**

A speed dial exclusion in ATC (Automatic Train Control) operations specifically refers to a service brake application that is triggered by the car-borne ATC system. This means that if the train exceeds certain speed thresholds that are not safe for the current operating conditions, the ATC will engage the brakes to reduce speed and bring the train back within safe operating limits. The purpose of this exclusion is to enhance safety by preventing trains from accelerating uncontrollably beyond a predetermined safe speed. Understanding this mechanism is crucial for train engineers because it helps them comprehend how ATC maintains safe train operations, particularly in scenarios where sudden speed increases could lead to dangerous situations. Thus, recognizing that a speed dial exclusion is directly linked to the automatic braking system highlights the importance of ATC in maintaining the safety and efficiency of train operations.

9. When responding to a Brake Pipe rupture, what is the first step?

- A. Check for activated emergency brake valve**
- B. Make sure the deadman valve is not operated**
- C. Turn off the blowers**
- D. Move valve into FULLSERVICE (charge) position**

In the context of responding to a Brake Pipe rupture, the initial step is to ensure that the deadman valve is not operated. This is critical because the deadman valve is a safety feature designed to apply the brakes in the event that the engineer becomes incapacitated. If the deadman valve is activated, it can result in the train being brought to a stop abruptly, which may not be necessary or safe given the situation. Ensuring that the deadman valve is not operated allows the engineer to maintain control over the train's braking system while assessing the situation. This control is essential for making informed decisions about the next steps to take, such as whether to activate emergency brakes or make adjustments to the braking system. The other options, while relevant in different contexts, do not prioritize the critical need for maintaining control of the train. Checking for activated emergency brake valves or moving the valve into a FULLSERVICE position are important steps, but they come after confirming that the deadman valve is properly managed to prevent unintended consequences during the emergency situation. Turning off the blowers may also be a consideration, but it does not address the immediate concern of the deadman valve in the context of a brake pipe rupture.

10. What procedure should be followed regarding personnel before moving car(s) on a shop track?

- A. Personnel should always be on the equipment**
- B. Personnel must be removed from the track area**
- C. Personnel can stay if tools are secured**
- D. Personnel should signal the movement**

The correct procedure regarding personnel before moving car(s) on a shop track is that personnel must be removed from the track area. This practice is crucial for maintaining safety during the movement of equipment. Removing personnel from the track reduces the risk of injury in the event of an unexpected situation, such as equipment malfunction or operator error. It ensures that there is a clear and safe working environment for both the workers and the equipment being moved. While the other choices might seem reasonable in some contexts, they could potentially compromise safety. For instance, having personnel on the equipment or allowing them to remain in the area, regardless of whether tools are secured, increases the risk of accidents. The requirement for personnel to signal movements, while beneficial in certain operations, is not a substitute for ensuring that no personnel are in the vicinity of moving cars, which is a critical safety measure.