

FRA Tier 2 Qualification Practice Test (Sample)

Study Guide



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SAMPLE

Questions

SAMPLE

- 1. What does the term 'break-even point' refer to?**
 - A. The level of sales at which total costs exceed total revenues**
 - B. The level of sales at which total revenues equal total costs**
 - C. The level of production that maximizes profit**
 - D. The level of sales that results in maximum losses**
- 2. What is the acceptable gap between the tie plate shoulder and the rail base in class 4 track?**
 - A. No gap is acceptable**
 - B. 1/8 inch maximum gap**
 - C. 1/4 inch maximum gap**
 - D. 1/2 inch maximum gap**
- 3. When a frog point is broken out more than specified dimensions, what must be done?**
 - A. Max speed must be reassessed**
 - B. Inspector must be notified immediately**
 - C. Train operations must be suspended**
 - D. A maintenance report is not required**
- 4. What restriction applies to non-certified rail installed in a main line required to be tested by a rail detector?**
 - A. Must not exceed Class 1 speeds**
 - B. Must not exceed Class 2 speeds**
 - C. Must not exceed Class 3 speeds**
 - D. No speed restrictions apply**
- 5. What is the purpose of conducting due diligence?**
 - A. To create marketing strategies for a business**
 - B. To investigate and assess a business or investment opportunity**
 - C. To analyze past financial performance**
 - D. To evaluate employee satisfaction levels**

- 6. How do fixed costs differ from variable costs?**
- A. Fixed costs vary with production levels, while variable costs remain constant**
 - B. Fixed costs are incurred only in certain periods, while variable costs are ongoing**
 - C. Fixed costs remain constant regardless of production levels, while variable costs fluctuate**
 - D. Both types of costs are unaffected by sales volume**
- 7. How many loose or missing frog bolts are considered a defect by the FRA?**
- A. Only one is a defect**
 - B. None**
 - C. Two or more**
 - D. Any missing bolt is a defect**
- 8. A 2 3/8 inch deep dip on the track is classified as which class of track?**
- A. Class 1**
 - B. Class 3**
 - C. Class 2**
 - D. Class 4**
- 9. What is the maximum freight speed allowed at rails where one joint is two inches low and another is one quarter inch low?**
- A. 40 MPH**
 - B. 50 MPH**
 - C. 60 MPH**
 - D. 70 MPH**
- 10. What does a comprehensive income statement include?**
- A. Only the net income of a company**
 - B. Net income and cash flows from operations**
 - C. Net income and other items affecting equity**
 - D. Only operational revenue and expenses**

Answers

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

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Explanations

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1. What does the term 'break-even point' refer to?

- A. The level of sales at which total costs exceed total revenues**
- B. The level of sales at which total revenues equal total costs**
- C. The level of production that maximizes profit**
- D. The level of sales that results in maximum losses**

The term 'break-even point' refers to the level of sales at which total revenues equal total costs. This is a crucial concept in finance and business as it indicates the threshold at which a company covers all its expenses, meaning it is neither making a profit nor incurring a loss. Understanding the break-even point helps businesses in various ways, such as setting sales targets and managing pricing strategies. At the break-even point, any sales made beyond this mark contribute to profit, while any sales below it would contribute to a loss. Knowing this point is vital for effective financial planning and decision-making, enabling businesses to assess the viability of their operations and strategies.

2. What is the acceptable gap between the tie plate shoulder and the rail base in class 4 track?

- A. No gap is acceptable**
- B. 1/8 inch maximum gap**
- C. 1/4 inch maximum gap**
- D. 1/2 inch maximum gap**

In Class 4 track, it is essential for the stability and safety of the rail system that there is no gap between the tie plate shoulder and the rail base. This requirement is in place to ensure that the rail is properly supported, which helps in maintaining correct track alignment and reducing the risk of derailment. An unbroken connection between the tie plate and the rail base facilitates the transfer of loads from the rail to the ties and subsequently to the ballast, creating a cohesive and stable structure. Hence, having no gap is critical for meeting engineering standards and ensuring safe train operations on this classification of track.

3. When a frog point is broken out more than specified dimensions, what must be done?

- A. Max speed must be reassessed**
- B. Inspector must be notified immediately**
- C. Train operations must be suspended**
- D. A maintenance report is not required**

The correct answer highlights the need for reassessing the maximum speed when a frog point is broken out beyond specified dimensions. This is crucial for ensuring the safety and stability of train operations. A frog point, which is the area of a track where trains switch from one track to another, must maintain strict dimensional integrity. If these dimensions are exceeded, it can affect the performance and safety of trains traversing that section. Reassessing the maximum speed involves evaluating whether it remains safe for trains to operate at their usual speeds or if adjustments are necessary to prevent derailments or other accidents. This step is critical in maintaining not only infrastructure integrity but also overall operational safety on the railway. In this context, notifying an inspector, suspending train operations, or indicating that a maintenance report is not required might all be plausible actions; however, they do not address the immediate need to determine the safe maximum speed given the broken dimensions. It's essential to prioritize a thorough risk assessment first to maintain safety standards in train operations when infrastructure issues arise.

4. What restriction applies to non-certified rail installed in a main line required to be tested by a rail detector?

- B. Must not exceed Class 2 speeds**
- A. Must not exceed Class 1 speeds**
- C. Must not exceed Class 3 speeds**
- D. No speed restrictions apply**

The correct answer indicates that non-certified rail installed in a main line that requires testing by a rail detector must not exceed Class 2 speeds. This restriction is significant because non-certified rail typically lacks the same level of verification for structural integrity and safety as certified rail. Consequently, allowing such rail to remain in service at speeds exceeding Class 2 can increase the risk of derailments or other safety hazards. Class 2 speed limits are set to ensure a balance between operational efficiency and safety, recognizing the limitations and potential issues associated with non-certified materials. In contrast, higher classes of speeds (like Class 3 or above) would put non-certified rail under greater strain and increase the likelihood of failure, which is why those options are not applicable. The notion that there are no speed restrictions does not hold, as safety regulations are designed to mitigate risks associated with infrastructure that does not meet stringent certification standards. Therefore, adhering to the Class 2 speed limit serves as a precaution to protect both the rolling stock and passengers from potential accidents.

5. What is the purpose of conducting due diligence?

- A. To create marketing strategies for a business
- B. To investigate and assess a business or investment opportunity**
- C. To analyze past financial performance
- D. To evaluate employee satisfaction levels

Conducting due diligence serves the primary purpose of investigating and assessing a business or investment opportunity. This process is essential for gathering information that helps potential investors, buyers, or stakeholders understand the value and risks associated with their decision. It involves a thorough examination of various aspects such as financial records, operational practices, legal compliance, and market conditions. This comprehensive evaluation allows investors to make informed decisions, ensuring they are aware of any potential issues that could affect the opportunity's success. The insights gained from due diligence can inform negotiations and foster transparency, ultimately contributing to more successful business transactions. The other choices do not capture the essence of due diligence as effectively. While creating marketing strategies, analyzing past financial performance, or evaluating employee satisfaction may be important activities within a business, they do not reflect the purpose of due diligence, which is specifically focused on thorough assessments of opportunities and risks before making significant business decisions.

6. How do fixed costs differ from variable costs?

- A. Fixed costs vary with production levels, while variable costs remain constant
- B. Fixed costs are incurred only in certain periods, while variable costs are ongoing
- C. Fixed costs remain constant regardless of production levels, while variable costs fluctuate**
- D. Both types of costs are unaffected by sales volume

Fixed costs are expenses that do not change regardless of the level of goods or services produced by a business. This means they remain constant whether production increases or decreases. Examples of fixed costs include rent, salaries, and insurance, which are incurred over time irrespective of the company's output. On the other hand, variable costs are directly tied to the production volume; they fluctuate based on how much is produced. If more units are produced, variable costs increase, and if fewer units are produced, these costs decrease. Common examples of variable costs are raw materials, direct labor costs associated with production, and utility costs that vary with usage. Understanding this distinction is crucial for financial planning, budgeting, and overall business strategy, as it helps businesses predict their expenses based on expected levels of production and sales.

7. How many loose or missing frog bolts are considered a defect by the FRA?

A. Only one is a defect

B. None

C. Two or more

D. Any missing bolt is a defect

The determination of defects regarding frog bolts, as outlined by the FRA, establishes that the presence of loose or missing frog bolts is only a concern if it reaches a specific threshold. The criteria specify that having none of the bolts missing means that no defect is present. The focus here is on the condition of the frog, which is a vital component of track switches. If there are no loose or missing bolts, the integrity of the frog is maintained, ensuring proper function and safety on the rail line. Thus, the absence of defects in this context denotes that no frog bolts are missing, and the structure is deemed safe for operation. In relation to the other options, stating that only one bolt being a defect would imply an overly cautious standard. Meanwhile, defining two or more missing bolts as a defect does not align with the FRA's criteria, as it overlooks the importance of having at least one bolt intact. As for any missing bolt being categorized as a defect, this would also fail to reflect the established norms where only a complete absence of bolts would raise concerns. Therefore, the interpretation of having none as a defect aligns with the regulatory guidelines set forth by the FRA.

8. A 2 3/8 inch deep dip on the track is classified as which class of track?

A. Class 1

B. Class 3

C. Class 2

D. Class 4

A dip of 2 3/8 inches on the track classifies as Class 2 track because it falls within the tolerances established for that specific track class. According to rail transport standards, Class 2 track is designed to accommodate moderate levels of track irregularities while still ensuring safety and operational efficiency. In a Class 2 track, the maximum allowable vertical dip is generally around 2 1/2 inches, which makes the classification relevant to the given dip measurement. This class of track allows for passenger trains to operate at speeds up to 30 mph on branch lines, reflecting the balance between operational safety and maintenance considerations. This classification indicates that while the track is not in perfect condition, it is still acceptable for continued use under certain operating conditions, ensuring a safe environment for rail operations.

9. What is the maximum freight speed allowed at rails where one joint is two inches low and another is one quarter inch low?

- A. 40 MPH**
- B. 50 MPH**
- C. 60 MPH**
- D. 70 MPH**

In this scenario, the maximum freight speed is determined by assessing the vertical alignment of the rail joints. When a rail joint is lower than the surrounding rail, it creates a potential hazard that could lead to derailments or accidents if approached at high speeds. In general, the rules for freight movement dictate that as the severity of misalignment increases, the permissible speed decreases. A joint that is two inches low is significantly misaligned and presents a more serious risk compared to a joint that is only a quarter inch low. For a joint that is two inches low, operational guidelines typically set a maximum speed of 40 mph for freight. However, if the joint raising only measures a quarter inch, it could allow for slightly higher speeds, perhaps around 50 mph or even 60 mph, depending on additional conditions like track condition, the type of train, and other safety factors. In this specific case, since one of the misaligned joints is two inches low, this directly influences the maximum speed limit across the stretch of track impacted by that joint, which is set at 40 mph. Thus, the overall operational limit must account for the more severe misalignment, making 60 mph an unsafe speed. This aligns with safe railroad operation standards,

10. What does a comprehensive income statement include?

- A. Only the net income of a company**
- B. Net income and cash flows from operations**
- C. Net income and other items affecting equity**
- D. Only operational revenue and expenses**

A comprehensive income statement provides a complete view of a company's financial performance by including not just the net income but also other comprehensive income items that can affect a company's equity. This broader perspective captures all changes in equity during a period that are not the result of transactions with owners. These additional items can include unrealized gains and losses on certain investments, foreign currency translation adjustments, and gains or losses from pension plans, among others. By including these elements, the comprehensive income statement ensures stakeholders have a full understanding of the operational and economic factors influencing the company's financial situation, beyond what is captured through the net income alone. In contrast, focusing solely on net income limits the view to operational performance without accounting for other significant aspects that impact overall equity. Therefore, the inclusion of both net income and these other comprehensive income items provides a more holistic and informative financial reporting perspective.