

# California ICC UST Service Technician Practice Exam (Sample)

## Study Guide



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## **Questions**

- 1. Which UST system is designed to meet secondary containment requirements?**
  - A. Single wall tanks**
  - B. Doubled wall tanks**
  - C. Gravity fed tanks**
  - D. Above ground tanks**
- 2. A positive shut-off overfill protection device must stop the flow of fuel when the tank is no more than \_\_\_\_\_ percent full.**
  - A. 90**
  - B. 95**
  - C. 98**
  - D. 100**
- 3. Which secondary containment system is NOT typically tested every 36 months?**
  - A. Underground storage tank**
  - B. Piping system**
  - C. Dispenser hose and nozzle assembly**
  - D. Leak detection system**
- 4. Where are Automatic Tank Gauges (ATGs) typically located?**
  - A. On double wall tanks**
  - B. On single wall tanks below ground**
  - C. On single wall tanks above ground**
  - D. On all fuel delivery trucks**
- 5. What is the required leak detection rate for an ATG testing the tank?**
  - A. 1.0 gph**
  - B. 0.5 gph**
  - C. 0.2 gph**
  - D. 0.1 gph**

- 6. What is a key aspect of Stage II Vapor Recovery systems?**
- A. Only applicable during emergencies**
  - B. Facilitates the recovery of vapors during fuel dispensing**
  - C. Required for tank inspections**
  - D. Only approved for gasoline**
- 7. What is classified as a UST?**
- A. A sewage storage tank**
  - B. A chemical storage tank**
  - C. A petroleum storage tank**
  - D. A wastewater tank**
- 8. How soon after enhanced leak detection must results be submitted?**
- A. 30 days**
  - B. 45 days**
  - C. 60 days**
  - D. 90 days**
- 9. What action should be taken if a fill pipe is red tagged?**
- A. Ignore the tag**
  - B. Immediately deliver fuel**
  - C. Resolve tagged issues before fuel delivery**
  - D. Document the tag only**
- 10. What does Overfill Protection primarily help prevent?**
- A. Fuel wastage**
  - B. Environmental contamination**
  - C. Explosion risks**
  - D. All of the above**

## **Answers**

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

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## **Explanations**

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**1. Which UST system is designed to meet secondary containment requirements?**

- A. Single wall tanks**
- B. Doubled wall tanks**
- C. Gravity fed tanks**
- D. Above ground tanks**

The answer is based on the fact that double wall tanks are specifically engineered to provide an additional layer of protection against leaks and spills, thereby meeting secondary containment requirements. These tanks have two walls: an inner wall that holds the product and an outer wall that serves as a containment layer. If the inner wall were to leak, the outer wall would contain any released product, preventing environmental contamination and ensuring compliance with regulatory standards. This design is essential for enhancing safety and environmental protection in the operation of underground storage tank (UST) systems. In contrast, single wall tanks lack that secondary barrier, and thus do not fulfill the requirements for heightened containment measures. Gravity fed tanks are primarily characterized by their method of operation rather than their structural capacity for secondary containment. Above ground tanks generally do not fit into the UST category and often have different regulations pertaining to their construction and maintenance.

**2. A positive shut-off overfill protection device must stop the flow of fuel when the tank is no more than \_\_\_\_\_ percent full.**

- A. 90**
- B. 95**
- C. 98**
- D. 100**

A positive shut-off overfill protection device is designed to prevent overfilling of underground storage tanks (USTs) by stopping the flow of fuel before the tank reaches its maximum capacity. The requirement for such a device is to halt the flow when the tank is no more than 95 percent full. This threshold is established to give a safety margin for potential expansion of the fuel, which can occur due to temperature changes or other environmental factors, thus reducing the risk of spills and ensuring compliance with environmental protection regulations. By stopping the fuel flow at 95 percent, the device ensures that there is sufficient space in the tank to accommodate any variations in fuel volume, which helps prevent overfilling and potential hazards associated with leaks or spills. This is why the answer indicating a 95 percent fill is the correct choice, as it adheres to established safety standards for UST management.

**3. Which secondary containment system is NOT typically tested every 36 months?**

- A. Underground storage tank**
- B. Piping system**
- C. Dispenser hose and nozzle assembly**
- D. Leak detection system**

The dispenser hose and nozzle assembly is typically not subjected to the same testing frequency as underground storage tanks, piping systems, and leak detection systems. While the other components listed are mandated to undergo tests every 36 months to ensure their integrity and ability to contain potential leaks, the dispenser hose and nozzle assembly usually has flexible requirements based on the operational conditions and manufacturer specifications. These assemblies do require regular inspections and maintenance to ensure they are functioning appropriately and free from leaks, but formal testing for secondary containment is not as strictly regulated on a three-year cycle as the other systems. The emphasis on regular checks and operational reliability helps ensure safety without imposing the same testing frequency as other containment systems.

**4. Where are Automatic Tank Gauges (ATGs) typically located?**

- A. On double wall tanks**
- B. On single wall tanks below ground**
- C. On single wall tanks above ground**
- D. On all fuel delivery trucks**

Automatic Tank Gauges (ATGs) are most commonly found on single wall tanks above ground due to the ease of access and visibility they provide for monitoring tank levels and conditions. When installed above ground, these systems can effectively monitor fuel levels, detect leaks, and provide critical data for regulatory compliance and operational efficiency. This positioning allows technicians to easily perform maintenance, upgrades, or inspections without the risk of excavation or other complications that might arise from below-ground installations. In contrast, while ATGs can technically be used with double wall tanks, these systems are not required in that configuration. For single wall tanks located below ground, access to the gauge would often be more challenging, leading to less frequent monitoring and potential compliance issues. Fuel delivery trucks do not typically house ATGs as part of their equipment; their purpose and operation differ significantly from those of stationary tank installations. Hence, the most logical and common location for ATGs aligns with single wall tanks installed above ground.

**5. What is the required leak detection rate for an ATG testing the tank?**

- A. 1.0 gph**
- B. 0.5 gph**
- C. 0.2 gph**
- D. 0.1 gph**

The required leak detection rate for an Automatic Tank Gauge (ATG) testing a tank is set at 0.2 gallons per hour (gph). This standard is established to ensure that any potential leaks are detected effectively and promptly, minimizing environmental contamination and operational risks. The 0.2 gph rate is particularly important as it balances detection sensitivity with practicality. It allows for the identification of leaks that could pose a risk without being overly conservative, which might lead to unnecessary and costly investigations or tank downtimes. In comparison, higher leak detection rates (like 1.0 gph or 0.5 gph) may not provide adequate sensitivity for smaller leaks, potentially allowing significant issues to go unnoticed. Lower rates, such as 0.1 gph, while providing excellent sensitivity, could lead to false positives or excessive scrutiny for minimal risks, which could be economically unfeasible for operations. Therefore, the standard of 0.2 gph serves as an industry benchmark to maintain safety while ensuring operational efficiency.

**6. What is a key aspect of Stage II Vapor Recovery systems?**

- A. Only applicable during emergencies**
- B. Facilitates the recovery of vapors during fuel dispensing**
- C. Required for tank inspections**
- D. Only approved for gasoline**

The key aspect of Stage II Vapor Recovery systems is that they facilitate the recovery of vapors during fuel dispensing. These systems are specifically designed to capture vapors that are displaced from a vehicle's fuel tank when gasoline is dispensed. This is essential for reducing air pollution and minimizing the release of harmful volatile organic compounds (VOCs) into the atmosphere, which can contribute to smog and respiratory problems. By capturing vapors during the refueling process, Stage II systems help to ensure that these emissions are collected and either returned to the storage tank or sent through an appropriate treatment system. This recovery process not only benefits the environment but also improves fuel efficiency, as fewer vapors are wasted. The other options do not accurately represent the primary function of Stage II Vapor Recovery systems. For example, they are not limited to emergencies, nor are they only applicable to tank inspections or specifically approved for gasoline. Instead, their main purpose is to manage and recover vapors during standard operations in fueling situations.

## 7. What is classified as a UST?

- A. A sewage storage tank
- B. A chemical storage tank
- C. A petroleum storage tank**
- D. A wastewater tank

A UST, or Underground Storage Tank, is specifically defined as any tank and its associated underground piping that is used to store regulated substances such as petroleum or certain chemicals. In the context of this question, a petroleum storage tank fits this definition because USTs are commonly used to store various types of fuel, such as gasoline, diesel, and oil, which all fall under the category of petroleum products. The classification relates specifically to the potential risks and regulatory requirements associated with these types of tanks, particularly concerning their impact on groundwater and the environment. The focus is on the safe storage and monitoring of these regulated substances to prevent leaks and spills. Other types of tanks mentioned, like sewage storage, chemical storage, and wastewater tanks, may not necessarily meet the UST criteria or might be regulated differently. For instance, sewage and wastewater tanks are often classified differently due to their contents and the regulations that apply to treatment versus storage, while chemical storage tanks can vary widely and are not limited to underground storage or regulated under the same requirements as USTs. Therefore, while they may be important in their own contexts, they do not classify as USTs under the specific definition used in this examination.

## 8. How soon after enhanced leak detection must results be submitted?

- A. 30 days
- B. 45 days
- C. 60 days**
- D. 90 days

The correct answer indicates that results from enhanced leak detection must be submitted within 60 days. This requirement is in place to ensure prompt communication regarding the integrity of underground storage tanks (USTs). Timely submission of these results allows for effective monitoring and immediate action if any leaks are detected, minimizing environmental risks and ensuring compliance with regulatory standards. The 60-day timeframe is critical for regulatory bodies and stakeholders to assess the operational status of the UST systems, as prolonged periods without reporting can lead to delayed responses in the event of leaks or other issues. This standard reflects industry best practices aimed at protecting both the environment and public health. In contrast, shorter timeframes such as 30 or 45 days may not allow for sufficient analysis of the data, while longer periods like 90 days could increase the risk associated with undetected leaks. Thus, the 60-day guideline strikes an appropriate balance between thoroughness and urgency.

**9. What action should be taken if a fill pipe is red tagged?**

- A. Ignore the tag**
- B. Immediately deliver fuel**
- C. Resolve tagged issues before fuel delivery**
- D. Document the tag only**

When a fill pipe is red tagged, it indicates that there are serious safety concerns or mechanical issues associated with that particular pipeline. As a result, the appropriate action is to resolve the issues identified by the tag before proceeding with any fuel delivery. This is crucial because delivering fuel through a compromised fill pipe can lead to hazardous situations, such as leaks or spills, which pose risks to both safety and the environment. By prioritizing the resolution of the tagged issues, technicians ensure compliance with safety regulations and help to maintain the integrity of the underground storage tank system. This not only protects human health and safety but also adheres to environmental protections mandated by regulatory agencies. Addressing these concerns promptly prevents potential accidents and reinforces the importance of maintaining safe operational practices in fuel handling.

**10. What does Overfill Protection primarily help prevent?**

- A. Fuel wastage**
- B. Environmental contamination**
- C. Explosion risks**
- D. All of the above**

Overfill Protection plays a crucial role in maintaining safety and environmental standards within the realm of underground storage tanks (USTs). Its primary purpose is to prevent the overflow of fuel during delivery, which can lead to several significant issues. When an overfill occurs, one of the most critical consequences is environmental contamination. Fuel spills can seep into the soil and groundwater, causing harm to the ecosystem and potentially affecting drinking water sources. Therefore, robust overfill protection systems are essential in safeguarding the environment from hazardous substances. Additionally, preventing overfills mitigates the risk of explosion. Fuels and flammable liquids pose serious fire hazards, especially when they accumulate outside designated storage areas. An overflow incident can lead to vapors that ignite, creating dangerous explosion risks. Lastly, fuel wastage is another concern that Overfill Protection addresses. Excess fuel that results from an overflow represents not only a financial loss for operators but also a waste of natural resources. An efficient system that prevents overfills contributes to more sustainable fuel management practices. In summary, Overfill Protection is designed to prevent environmental contamination, mitigate explosion risks, and reduce fuel wastage, thereby encompassing all the factors contributing to its importance in UST operations.