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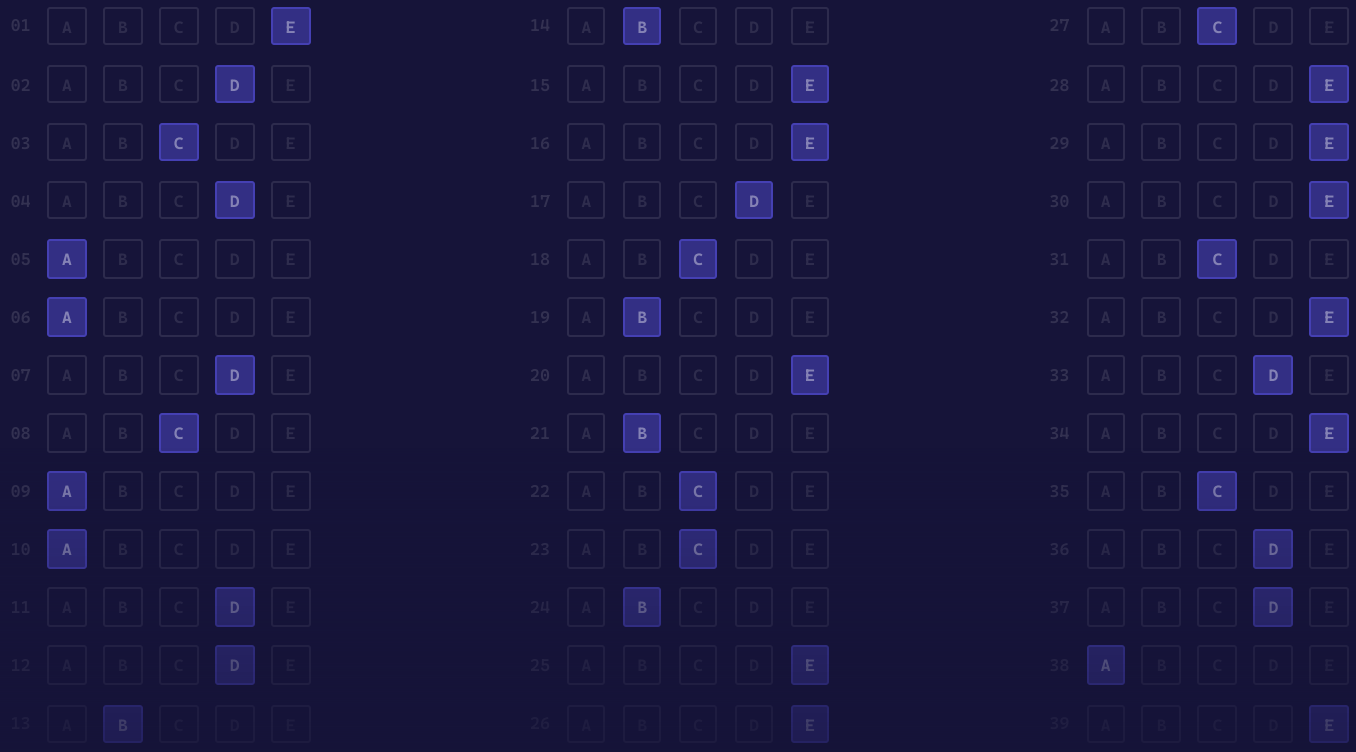

PRACTICE QUESTIONS

CONNECTICUT OCCUPATIONAL TRADES

LA9QHBKU

CT J1 Limited Wells Pump Contractor

EDITION	QUESTIONS	ISSUED
Demo	9	September 4, 2026

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Before you begin

What this is

9 practice questions for CONNECTICUT OCCUPATIONAL TRADES `LA9QHBKU`, each with its answer key and an explanation. Answer a question before you read its key — the explanation is worth more once you have committed.

If something looks wrong

Send us three things and we will check it:

- the exam code, `LA9QHBKU`
- the question number
- the email address on your order

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QUESTION 1 SINGLE CHOICE

Under the Connecticut Public Health Code requirements administered for limited wells pump work, what is the minimum setback distance that a new potable well must be maintained from a septic tank?

A 10 feet

B 25 feet

C 50 feet

D 100 feet

ANSWER B

WHY The Connecticut Public Health Code (Technical Standards for Subsurface Sewage Disposal Systems and Wells) requires a minimum horizontal separation of 25 feet between a well and a septic tank. Ten feet is insufficient, while 50 and 100 feet apply to other features such as septic leaching areas or certain contamination sources.

QUESTION 2 SINGLE CHOICE

A property owner requests that a J1 Limited Wells Pump Contractor replace a submersible pump in an existing 4-inch diameter domestic well on their residential property. Which statement best describes the scope of work permitted under this classification?

A The contractor may drill a new 6-inch well, install the casing, and set the pump.

B The contractor may replace the pump and related appurtenances in the existing well, but may not drill a new well or set new casing.

C The contractor may construct a new well of any diameter but only above the static water level.

D The contractor may only service jet pumps and is not authorized to work on submersible pumps.

ANSWER B

WHY The J1 Limited Wells Pump Contractor registration is limited to pump-related work on existing wells, such as pump replacement, repair, and related appurtenances (pressure tanks, controls, piping at the wellhead). It does not authorize drilling new wells or installing casing, which fall under the J1 Well Drilling or full J1 Well Contractor classifications.

QUESTION 3 SINGLE CHOICE

When installing a pump in an existing well, which of the following is the required method for sealing the annular space around the well casing at the surface to prevent contamination?

A Backfilling with native soil only

B **A sanitary well seal (pitless adapter cap or equivalent) with a vented cap**

C Covering with a loose-fitting plastic bag

D Pumping cement grout to a depth of 12 inches only

ANSWER **B**

WHY Connecticut regulations require a watertight sanitary well seal at the top of the well casing, typically using a vented cap or pitless adapter cap, to prevent surface water, insects, and debris from entering the well. Native soil alone is not acceptable, and a grout seal is required lower in the annular space at construction, not as the surface seal.

QUESTION 4 SINGLE CHOICE

A submersible pump installation requires a dedicated electrical circuit. Which electrical requirement applies to the supply circuit for a submersible pump installed in a domestic well?

A It must be on a shared general lighting circuit with other outlets.

B **It must be on a dedicated circuit with a disconnect within sight of the pump and properly sized overcurrent protection.**

C It must be wired directly to the meter base without overcurrent protection.

D It may use any extension cord of sufficient gauge.

ANSWER **B**

WHY Submersible pump circuits must be dedicated, sized for the pump's full-load amps with appropriate overcurrent protection, and include proper grounding. A disconnecting means is required within sight of the controller per the National Electrical Code as adopted in Connecticut. Shared circuits, unmetered taps, and extension cords are not permitted.

QUESTION 5 SINGLE CHOICE

What is the minimum acceptable grouting material for the annular space of a bedrock well constructed with steel casing in Connecticut?

A Bentonite chips only

B Neat cement grout or bentonite grout placed by tremie from the bottom of the casing upward

C Native cuttings and drilling mud

D Sand and gravel fill

ANSWER B

WHY Connecticut well construction standards call for sealing the annular space using neat cement grout or bentonite grout, placed by tremie pipe from the bottom up to ensure complete filling without bridging. Native cuttings, loose bentonite chips alone, or sand/gravel do not provide the required seal against surface contamination.

QUESTION 6 SINGLE CHOICE

Before beginning pump replacement work on an existing domestic well in Connecticut, the J1 Limited Wells Pump Contractor must typically:

A Notify the local health department and obtain any required well permit prior to commencing work.

B Only post a sign at the property; no permit is needed for pump work.

C Notify only the well driller who originally constructed the well.

D File a report with the Connecticut Department of Energy and Environmental Protection instead of any local permit.

ANSWER A

WHY Pump work on wells in Connecticut generally requires the contractor to follow local well permit procedures, including obtaining a permit from the local health department or authorized agent and ensuring any required notifications are made before commencing. Pump replacement is not exempt from permitting, and a sign or neighbor notification does not substitute.

QUESTION 7 SINGLE CHOICE

When connecting a submersible pump to a home's potable water distribution system, which backflow prevention measure is required to protect the well from contamination?

A An atmospheric vacuum breaker on the well casing vent

B An approved backflow preventer or check valve at the pump discharge and a pressure relief/expansion device as required by code

C No backflow prevention is required if the pump is submersible

D A simple garden hose connection

ANSWER B

WHY Connecticut plumbing and well standards require backflow prevention on the pump discharge (check valve or appropriate backflow preventer) to stop reverse flow from contaminating the well, along with a pressure relief valve on the pressure tank where applicable. An atmospheric vacuum breaker is used for hose bibbs, not wellhead protection, and a hose connection provides no protection.

QUESTION 8 MULTIPLE CHOICE

Which of the following items are required components of a properly completed domestic submersible pump installation? (Choose two.)

A A sanitary well seal at the top of the casing

B A pitless adapter or equivalent frost-proof discharge connection

C An open-ended discharge pipe left uncapped

D A pressure tank and pressure switch sized for the pump's flow and pressure requirements

ANSWER A · B

WHY A sanitary well seal and a pitless adapter (or approved frost-proof discharge) are both required to keep contaminants out and provide a frost-proof, code-compliant connection to the distribution system. The discharge pipe must be sealed, not left open, and a properly sized pressure tank and switch are also necessary for correct operation.

QUESTION 9 MULTIPLE CHOICE

Following pump replacement on a domestic well, which actions are required before placing the system back into service? (Choose two.)

A **Disinfect the well and distribution system with an approved chlorine solution, then sample for bacteriological analysis as required by the local health authority**

B Immediately connect the pump to the home and begin use without flushing

C **Flush the system to waste until chlorine residual and turbidity are acceptable before returning to service**

D Skip sampling because pump replacement never requires water quality testing

ANSWER **A · C**

WHY After any well service that may introduce contamination (such as pulling and reinstalling a pump), the well and plumbing must be disinfected with an approved chlorine solution, flushed thoroughly to remove chlorine and sediment, and sampled for bacteriological quality per local health department requirements before being returned to service.

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