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39	A	B	C	D	E

PRACTICE QUESTIONS

CONNECTICUT OCCUPATIONAL TRADES

CAC2QSXB

CT G8 Limited Welding Jrny

EDITION

Demo

QUESTIONS

9

FORMAT

Limited Edition PDF

Before you begin

What this is

9 practice questions for CONNECTICUT OCCUPATIONAL TRADES CAC2QSXB , 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, CAC2QSXB
- the question number
- the email address on your order

Write to **support@mometrix.net**. We reply within one business day.

QUESTION 1

SINGLE CHOICE

When performing oxy-fuel cutting in a confined space, which precaution is required?

- ☐ A Use only a fuel gas cylinder and leave the oxygen cylinder outside the space
- ☒ B Ensure adequate ventilation and place cylinders outside the confined space whenever possible
- ☐ C Open the fuel gas valve fully before ignition to increase flame temperature
- ☐ D Wear only a face shield without a hard hat for better visibility

ANSWER B

WHY Confined-space welding/cutting requires adequate ventilation to prevent accumulation of toxic fumes and gases, and cylinders should remain outside the space when feasible to reduce fire/explosion hazards. Opening the fuel valve fully before ignition is unsafe, and proper PPE includes a hard hat where hazards exist.

QUESTION 2

SINGLE CHOICE

Which shade number of filter lens is generally appropriate for shielded metal arc welding (stick) at 200 amps?

- ☐ A Shade 5
- ☐ B Shade 8
- ☒ C Shade 11
- ☐ D Shade 14

ANSWER C

WHY Per ANSI Z49.1 guidelines, arc welding at 200 amps typically requires a filter lens shade in the range of 10–13, with shade 11–12 commonly used for stick welding in that amperage range. Shade 5 is too light (suitable for oxy-fuel) and shade 14 is generally used for heavier amperages.

QUESTION 3

TRUE FALSE

An arc welding machine should never be operated in rain or standing water because water contacting the electrode or energized parts can cause electric shock.

☒ **A** True☐ **B** False**ANSWER A**

WHY Arc welding equipment should be kept dry; operation in rain or standing water creates a serious shock hazard because the operator, electrode holder, and workpiece can become energized paths to ground. Equipment should be sheltered and the work area kept dry.

QUESTION 4

SINGLE CHOICE

Which AWS electrode classification is commonly used for shielded metal arc welding of mild structural steel in the field?

☐ **A** E6010☒ **B** E7018☐ **C** E308L-16☐ **D** E11018**ANSWER B**

WHY E7018 is a low-hydrogen, iron-powder electrode widely used for welding mild and low-alloy structural steel, especially where good notch toughness and low hydrogen levels are required (e.g., structural and pressure vessel work). E6010 is a deep-penetration cellulosic electrode, E308L-16 is for stainless steel, and E11018 is a high-strength low-alloy electrode.

QUESTION 5

SINGLE CHOICE

Before lighting an oxy-acetylene torch, the correct sequence is to:

- ☐ A Open the oxygen valve first, then the acetylene valve, then light the acetylene
- ☒ B Open the acetylene valve slightly, light the flame, then adjust the oxygen
- ☐ C Open both valves fully, then light with a striker
- ☐ D Purge the lines with acetylene, then oxygen, before lighting

ANSWER B

WHY The standard lighting procedure is to open the acetylene valve slightly, light the gas with a friction lighter, and then slowly open the oxygen valve to adjust to a neutral flame. Opening oxygen first can cause a backflash, and fully opening valves before lighting is unsafe. Lines should be purged, but with the same gas used, not by mixing.

QUESTION 6

SINGLE CHOICE

On a welding symbol, a fillet weld symbol with the leg size shown on the left of the symbol and no length or pitch indicated means the weld is to be:

- ☐ A A intermittent fillet weld of the specified length and pitch
- ☒ B A continuous fillet weld along the entire joint
- ☐ C A plug weld of the specified diameter
- ☐ D A flare-bevel weld of the specified size

ANSWER B

WHY Per AWS A2.4, a fillet weld symbol with no length and pitch dimensions indicates a continuous fillet weld along the entire length of the joint. Intermittent welds require both length and pitch to be specified on the symbol.

QUESTION 7

SINGLE CHOICE

When striking an arc for SMAW, the preferred method is to:

- ☐ A Tap the electrode against the plate and hold it there to start the arc
- ☒ B Scratch or strike the electrode like a match and immediately withdraw to the correct arc length
- ☐ C Hold the electrode 1 inch above the plate and wait for the arc to jump
- ☐ D Rest the electrode on the plate and increase amperage until it melts

ANSWER B

WHY The scratch (or striking) start method involves brushing the electrode across the workpiece like striking a match and then quickly withdrawing to the correct arc length. Tapping and holding sticks the electrode to the work, and holding it too far away prevents arc initiation.

QUESTION 8

SINGLE CHOICE

Compressed gas cylinders, whether full or empty, must always be:

- ☐ A Stored with the valve end down to keep the gas at the outlet
- ☒ B Chained or secured upright with the valve protection cap in place when not in use
- ☐ C Laid on their sides to prevent tipping in storage racks
- ☐ D Connected directly to the regulator without a pressure-relief device

ANSWER B

WHY OSHA and CGA guidelines require that compressed gas cylinders be stored upright and secured (chained or strapped) to prevent tipping, and that the valve protection cap be in place whenever the cylinder is not in use. Storing on their sides risks damage and uncontrolled release, and regulators require a relief device as appropriate.

QUESTION 9

SINGLE CHOICE

When performing oxy-fuel cutting, which item of personal protective equipment is specifically required to protect the eyes from the intense visible light and infrared radiation produced by the flame?

- ☐ A Sunglasses with UV coating
- ☒ B Welding goggles or a face shield with the proper filter shade for gas welding
- ☐ C Clear safety glasses only
- ☐ D A hard hat with a chin strap

ANSWER B

WHY Oxy-fuel cutting produces intense visible light and infrared radiation that can cause welder's flash (arc eye) and burns to the retina. Proper gas welding goggles or a face shield fitted with the correct filter shade (typically shade 3 to 6 depending on the operation) are required. Standard safety glasses or sunglasses do not provide adequate protection, and a hard hat is for impact, not radiation.