

TEN FREE 456A WELDER PRACTICE QUESTIONS.

QUESTIONS	COST	LAST CHECKED
10, multiple choice, answers explained	Free. No account, no email	September 29, 2026

Ten 456A Welder questions in the format of the Red Seal exam: four options, one correct answer, no trick questions. They are free to use, print and share. There is nothing to sign up for on this page.

01 How to use these

The questions come from the TicketPrep 456A bank and are spread across the exam's work activities in the order and roughly the proportion the Red Seal Program publishes for this trade: A (performs common occupational skills), B (performs layout and fabrication of components for welding), C (performs cutting and gouging), D (performs welding processes). Answer each one before opening the explanation. Every explanation covers all four options, because on the real exam the wrong options are written to be plausible, and knowing *why* they are wrong is most of the skill.

- **Pace.** The exam allows four hours for 125 questions, so about 1 min 55 s per question. Try these at that pace.
- **Print.** The printed version shows the questions and the answer key without the explanations, so it works as a handout.
- **Mark.** The pass mark is 70 percent on every Red Seal trade; seven of ten here is the same bar.

02 The questions

Before laying out gusset plates at a bridge-girder plant, you want to check that a combination square's blade is truly square to its stock. Which check shows this without needing another square?

- A. Set it on a surface plate and check with a level
 - B. Compare it with another square from the gang box
 - C. Scribe a line, flip the square, scribe again, compare
 - D. Measure the blade with a tape at both ends
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A welder with a full beard must be protected from manganese fume in a mine shop where local exhaust cannot fully control exposure. Which respirator arrangement suits?

- A. A disposable N95 pressed firmly over the beard
 - B. A loose-fitting powered air-purifying (PAPR) helmet
 - C. No respirator; the helmet deflects the fume plume
 - D. A half-mask with P100 filters, fit-tested over the beard
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For a parallel-line saddle template on a 114.3 mm (4 in NPS) OD branch, the stretchout is divided into 16 equal spaces. How far apart are the ordinate lines? ($\pi = 3.1416$)

- A. 22.4 mm
- B. 44.9 mm
- C. 7.1 mm
- D. 11.2 mm

Factory-bevelled carbon-steel pipe for butt welding (the ASME B16.25 standard end preparation) usually arrives with what bevel angle and root face?

- A. 60° with a 1.6 mm (1/16 in) land
- B. 30° with a 3.2 mm (1/8 in) land
- C. 37.5° with a 1.6 mm (1/16 in) land
- D. 45° with no land

On a food-plant job, the flap discs and wire brushes used on 316L stainless piping must never have been used on carbon steel. Why?

- A. Used discs leave too rough a sanitary finish
- B. Embedded iron particles rust and start pitting
- C. Steel residue raises the grinding temperature
- D. Carbon from the disc sensitizes the HAZ

You need to pierce 20 mm (3/4 in) plate by hand to start an interior cut. After preheating a spot to bright red, what is the correct technique?

- A. Open the cutting oxygen before preheating the spot
- B. Hold the tip in the preheat position and open the oxygen fully
- C. Lower the tip onto the plate to focus the heat
- D. Raise the tip a little, tilt it, then open the oxygen slowly

What does the final digit, 8, in E4918 (E7018) tell you about the electrode's coating and current?

- A. Rutile iron-powder coating; flat position only
- B. High-cellulose sodium coating; DCEP only
- C. Low-hydrogen potassium with iron powder; DCEP or AC
- D. Rutile potassium coating; AC or DC either polarity

The WPS for 38 mm (1-1/2 in) plate calls for a 93 °C (200 °F) minimum preheat, measured 75 mm (3 in) from the joint. You have a 93 °C (200 °F) temperature-indicating stick. How do you confirm preheat?

- A. Mark 75 mm (3 in) from the joint; the mark melts when hot enough
- B. Heat until the plate shows a dull red colour, then start
- C. Mark the plate where the torch flame is playing
- D. Mark the joint face; if the mark smokes, preheat is reached

At a bridge-girder field splice, the crew is welding FCAW-G with E491T-1M and 75/25 gas. Wind at the joint measures 15 km/h (9 mph). What should be done before welding?

- A. Double the gas flow to hold the shield
- B. Erect wind screens or an enclosure at the joint
- C. Shorten the CTWD to about 6 mm (1/4 in)
- D. Weld quickly in the gaps between gussets

An aerospace subcontractor is GTAW welding a deep inside corner that needs the tungsten to extend well past the cup. Which torch component lets the tungsten extend further while keeping good shielding?

- A.** A standard collet body with a higher flow
- B.** A longer back cap on the torch
- C.** A smaller cup to concentrate the gas
- D.** A gas lens collet body and matching cup

03 Answer key

QUESTION	ANSWER	WORK ACTIVITY
Q1	C	Performs common occupational skills
Q2	B	Performs common occupational skills
Q3	A	Performs layout and fabrication of components for welding
Q4	C	Performs layout and fabrication of components for welding
Q5	B	Performs cutting and gouging
Q6	D	Performs cutting and gouging
Q7	C	Performs welding processes
Q8	A	Performs welding processes
Q9	B	Performs welding processes
Q10	D	Performs welding processes

More free questions

For the 456A exam itself, the 456A exam guide covers the work activities, their weights and how the exam is scored, and the 456A Welder practice exam page describes the full TicketPrep 456A question bank. The same free format is available for the other 10 trades, plus the free guides on the pass mark, question counts, exam day and how to study.

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How these questions are written and checked: how our questions are made. Found a mistake? Tell us and we will fix it.