

TEN FREE 307A STEAMFITTER/PIPEFITTER PRACTICE QUESTIONS.

QUESTIONS	COST	LAST CHECKED
10, multiple choice, answers explained	Free. No account, no email	September 26, 2026

Ten 307A Steamfitter/Pipefitter 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 307A 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, fabrication and piping installation), C (performs rigging, hoisting, lifting and positioning), D (installs, tests, maintains, troubleshoots and repairs low and high pressure steam and condensate systems), E (installs, tests, maintains, troubleshoots and repairs heating, cooling and process piping systems), F (installs, tests, maintains, troubleshoots and repairs renewable energy systems), G (performs commissioning, start-up and turnover). 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 130 questions, so about 1 min 51 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.
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02 The questions

Q1 • RECALL • PERFORMS COMMON OCCUPATIONAL SKILLS

A steamfitter will inspect tank-wall piping from a rope access system. How is each technician connected in a certified rope access system?

- A. To one line tied off to two anchor points
 - B. To one working line fitted with a rated descender
 - C. To a bosun's chair hung from a single fall line
 - D. To two independently anchored lines: working and backup
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Q2 • PROCEDURAL • PERFORMS LAYOUT, FABRICATION AND PIPING INSTALLATION

A 200-ft (61 m) carbon-steel steam line is installed at 70 °F (21 °C) and will operate at 340 °F (171 °C). Using $\text{expansion} = L \times \Delta T \times \alpha$ with $\alpha = 0.0000065 \text{ in./in.}^\circ\text{F}$, how much will the line grow?

- A. 0.35 in.
- B. 5.30 in.
- C. 4.21 in.
- D. 2.11 in.

Q3 · RECALL · PERFORMS RIGGING, HOISTING, LIFTING AND POSITIONING

A synthetic sling in a module yard has a cut that exposes red yarns from inside the sling. What does this mean?

- A. It is the colour code for the sling's capacity
- B. The sling may be used at half its rated load
- C. The core is damaged; remove it from service
- D. The sling is due for its periodic inspection

Q4 · PROCEDURAL · INSTALLS, TESTS, MAINTAINS, TROUBLESHOOTS AND REPAIRS LOW AND HIGH PRESSURE STEAM AND CONDENSATE SYSTEMS

The boiler-water conductivity (TDS) reading taken with the test kit on a low-pressure steam boiler at a food plant is above the limit in the treatment program. What is the correct adjustment?

- A. Raise the boiler operating pressure
- B. Add more sodium sulphite to the boiler
- C. Increase blowdown to lower the TDS
- D. Reduce the make-up water feed

Q5 · RECALL · INSTALLS, TESTS, MAINTAINS, TROUBLESHOOTS AND REPAIRS HEATING, COOLING AND PROCESS PIPING SYSTEMS

Under ASME B31.3, for which fluid service may the owner elect an initial service leak test instead of a hydrostatic leak test?

- A. Category D fluid service
- B. Category M fluid service
- C. High-pressure fluid service
- D. Normal fluid service

A drainback solar system is being piped for a school's domestic hot water. The collectors must empty whenever the pump stops. How is the collector supply and return piping run?

- A. Sloped continuously toward the drainback tank, no sags
- B. Level, with drain valves at each low point
- C. Sloped toward the tank, with a return check valve
- D. Pitched toward the collectors, with a vent at the top

After chemical cleaning of new stainless steel piping in a food plant, the specification calls for passivation. What does passivation do?

- A. Dissolves mill scale and heat tint by attacking the surface
- B. Rebuilds the thin chromium-oxide film that resists corrosion
- C. Removes oil, grease and cutting fluids left from fabrication
- D. Raises the pH of the spent acid so it can be drained safely

A support base plate is being fastened to a concrete floor with adhesive (chemical) anchors. What must be done before the adhesive is injected?

- A. Oil the threaded rod so it can be removed later
- B. Clean the dust out of each hole by brushing and blowing
- C. Set the rod first, then pour adhesive around it
- D. Fill each hole with water so the adhesive cures faster

In a gravity-return low-pressure steam system, which description fits a wet return?

- A. A return below the boiler water line that runs full of water
- B. A return that carries flash steam from high-pressure traps
- C. A return above the boiler water line that carries condensate and air
- D. Any return that drains to a condensate pump

Spools of 316L stainless arrive for a chemical plant, and the QC plan calls for alloy verification before installation. What does the fitter do?

- A. Check the painted colour code and install
- B. Confirm by PMI and match heat numbers to the MTRs
- C. Test with a magnet, since stainless will not attract it
- D. Rely on the fabricator's packing slip

03 Answer key

QUESTION	ANSWER	WORK ACTIVITY
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Q1	D	Performs common occupational skills
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Q2	C	Performs layout, fabrication and piping installation
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Q3	C	Performs rigging, hoisting, lifting and positioning
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Q4	C	Installs, tests, maintains, troubleshoots and repairs low and high pressure steam and condensate systems
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Q5	A	Installs, tests, maintains, troubleshoots and repairs heating, cooling and process piping systems
Q6	A	Installs, tests, maintains, troubleshoots and repairs renewable energy systems
Q7	B	Performs commissioning, start-up and turnover
Q8	B	Performs layout, fabrication and piping installation
Q9	A	Installs, tests, maintains, troubleshoots and repairs low and high pressure steam and condensate systems
Q10	B	Installs, tests, maintains, troubleshoots and repairs heating, cooling and process piping systems

04 More free questions

For the 307A exam itself, the 307A exam guide covers the work activities, their weights and how the exam is scored, and the 307A Steamfitter/Pipefitter practice exam page describes the full TicketPrep 307A question bank. The same free format is available for the other 9 trades, plus the free guides on the pass mark, question counts, exam day and how to study.

310S

Automotive Service Technician questions

310T

Truck and Coach Technician questions

309A

Electrician questions

403A

Carpenter questions

421A

Heavy Duty Equipment Technician questions

332A

Hairstylist questions

433A

313A

**Industrial Mechanic Millwright
questions**

**Refrigeration & AC Systems
Mechanic questions**

415A

Cook questions

HUB

All free practice questions

GUIDES

The Red Seal exam, explained

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