

RED SEAL STUDY GUIDE WELDER YEAR 4

**25 EXAM PREP QUESTIONS
WITH ANSWERS**



APPRENTICES | INSTRUCTORS | INSTITUTES

RedSealStudyGuide.ca

UNITY CREST SOLUTIONS INC.

INTRODUCTION

Introducing the Red Seal Study Guide – Welder.

Ready to dive into the world of Welder? Meet your ultimate companion – the Red Seal Study Guide for Welder. This practical booklet is your go-to practice tool to conquer your Welder exam.

Presented in an easy Q&A format, this guide lets you preview the kinds of questions you'll tackle on the real exam day. Consider it a sneak peek into what's coming your way!

Inside its pages, you'll find a treasure trove of Welder essentials. It's more than just answering questions – it's about truly grasping the basics of Welder in a way that sticks. Whether you're starting fresh or aiming to refine your skills, this guide has got you covered.

So, get set to challenge yourself, learn in a breeze, and build up your Welder expertise. With the Red Seal Study Guide, you're all set to take that significant stride toward becoming a certified Welder.

Ready to get started? For more information, tips, and resources, head over to www.RedSealStudyGuide.ca
Welder success starts here – dive in!



DISCLAIMER

Study Guide Disclaimer: Important Notice

The Red Seal Study Guide – Welder is a reference tool meant to enhance your exam preparation. It offers insights into potential question formats. However, it's vital to know that this guide should complement, not replace, official government-issued study materials.

For comprehensive readiness, we recommend using both this guide and official resources provided by relevant authorities. Please note that this guide covers exams across Canadian provinces, but slight content variations might exist.

For your best chance at success, ensure a well-rounded preparation approach that includes official materials.

Good luck on your path to becoming a certified Welder!

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Let's craft your future together!



1. What aligns a flexible coupling on a base-mounted pump?

- A: Micrometer, Vernier
- B: Square-level combination
- C: Level water, straight edge
- D: Feeler gauge, straight edge

2. The load radius is 23' and the boom length is 64' What is the maximum load?

- A: 37,900 lb
- B: 31,900 lb
- C: 34,300 lb
- D: 36,300 lb

3. What is the socket weld fitting gap recommended?

- A: 3 mm
- B: 4 mm
- C: 1 mm
- D: 2 mm

4. During the installation of a turnbuckle sensitive to vibration, how is it secured?

- A: Mouse hook
- B: Peen threads
- C: Lock wire
- D: Jam Nut

5. A 24-inch pipe needs a double-wrap choker Size: 744" from pipe top to hook center The sling's length?

- A: 16'
- B: 20'
- C: 18'
- B: 12'

See answers on the next page.



1. ☐ A ☐ B ☐ C ☒ D

Note: _____

2. ☐ A ☒ B ☐ C ☐ D

Note: _____

3. ☐ A ☐ B ☒ C ☐ D

Note: _____

4. ☐ A ☐ B ☒ C ☐ D

Note: _____

5. ☐ A ☒ B ☐ C ☐ D

Note: _____



6. A continuous 84-foot (252-meter) blow-down line grades 1041% The hangers are 10'(3 m) apart and 2'(6 m) from the line's commencement What is the length of the 7th hanger if the first is 18¼" (465 m) long?

- A: 670 mm
- B: 620 mm
- C: 654 mm
- D: 694 mm

7. 1bA low-pressure steam boiler has four 2" (50 mm) steam nozzles What is the minimum steam header size?

- A: 75 mm
- B: 50 m
- C: 150 mm
- D: 100 mm

8. What is the suggested process for welding 316L stainless steel with a GTAW root and SMAW fill and cap for a clean finish?

- A: Preheat
- B: Relieving stress
- C: Pickling
- D: Passivating

9. Calculate the face-to-center dimension of a 6" (150 mm) schedule 40 butt weld LR 90° elbow

- A: 150 mm
- B: 300 mm
- C: 225 mm
- D: 95 mm

**10. Standard steel 14-inch (350mm) steam lines must pass through concrete foundation walls. How big should the core be to keep the pipe 1 inch (25mm) away?
The dimensions are:**

- A: (450mm)
- B: (400mm)
- C: (350mm)
- D: (375mm)

See answers on the next page.



6. ☐ A ☐ B ☒ C ☐ D

Note: _____

7. ☐ A ☐ B ☐ C ☒ D

Note: _____

8. ☐ A ☐ B ☒ C ☐ D

Note: _____

9. ☐ A ☐ B ☒ C ☐ D

Note: _____

10. ☐ A ☒ B ☐ C ☐ D

Note: _____



11. To which equipment is the high-pressure turbine exhaust steam piped?

- A: Pendant superheater
- B: Convection superheater
- C: Pendant reheater
- D: Convection reheater

12. What is the minimum wrap-around length needed for marking a circumferential line?

- A: Twice the pipe circumference
- B: $1\frac{3}{4}$ times pipe circumference
- C: $1\frac{1}{4}$ times pipe circumference
- D: 2 times pipe circumference

13. Why is an open palm used with a hand signal?

- A: Move the load slowly
- B: Move the load fast
- C: Emergency halt
- D: Left-load swing

14. Which code, standard, or reference is used for hanger spacing in a refinery service building for installing steel pipe with natural gas?

- A: Oil/Gas Pipeline Systems
- B: ASME/ANSI B31 Process pipe code
- C: Natural gas and propane installation code B1491
- D: Canadian Building Safety Reference

15. A low-pressure cast iron sectional boiler features a 15-psi safety valve which test pressure is needed?

- A: 30 psi
- B: 225 psi
- C: 45 psi
- D: 15 psi

See answers on the next page.



11. ☐ A ☐ B ☐ C ☒ D

Note: _____

12. ☐ A ☐ B ☒ C ☐ D

Note: _____

13. ☒ A ☐ B ☐ C ☐ D

Note: _____

14. ☐ A ☐ B ☒ C ☐ D

Note: _____

15. ☒ A ☐ B ☐ C ☐ D

Note: _____



16. Extension cables for indoor and outdoor use are essentially the same.

- A: True
- B: False

17. A typical Siamese inlet connection for fire departments includes fire hose connections.

- A: 2"
- B: 2 ½"
- C: 1"
- D: 1/2"

18. Pipe guides should be set at least two pipe diameters from two 90-degree bends used as expansion joints.

- A: 4
- B: 8
- C: 14
- D: 20

19. When applying fiberglass insulation, place strapping no more than mm apart.

- A: 450
- B: 600
- C: 300
- D: 150

20. With a separate storm drain, the rainwater pipe must be trapped.

- A: True
- B: False

See answers on the next page.



16. ☐ A ☒ B ☐ C ☐ D

Note: _____

17. ☐ A ☒ B ☐ C ☐ D

Note: _____

18. ☒ A ☐ B ☐ C ☐ D

Note: _____

19. ☒ A ☐ B ☐ C ☐ D

Note: _____

20. ☐ A ☒ B ☐ C ☐ D

Note: _____



21. Water pressure is only one-way when opening a valve or faucet.

- A: True
- B: False

22. Chlorinated Polyvinyl Chloride is designed to tolerate temperatures up to F

- A: 222
- B: 212
- C: 180
- D: 140

23. What is the minimum anchor size in inches for floor-mounted carriers?

- A: 1
- B: $\frac{3}{4}$
- C: $\frac{1}{2}$
- D: $\frac{1}{4}$

24. Which characterizes a frost-free faucet?

- A: Spring-operated cartridge delivers a timed amount of water
- B: With a single control mechanism for hot and cold mixing
- C: Faucet that drains the barrel completely
- D: Separate hot and cold control modules

25. Vacuum labels must include writing on a backdrop.

- A: Brown, silver
- B: White, green
- C: Black, white
- D: Yellow, silver, black



21. ☐ A ☒ B ☐ C ☐ D

Note: _____

22. ☐ A ☒ B ☐ C ☐ D

Note: _____

23. ☐ A ☐ B ☒ C ☐ D

Note: _____

24. ☐ A ☐ B ☒ C ☐ D

Note: _____

25. ☐ A ☐ B ☐ C ☒ D

Note: _____



- 1). (A) (B) (C) (D)
- 2). (A) (B) (C) (D)
- 3). (A) (B) (C) (D)
- 4). (A) (B) (C) (D)
- 5). (A) (B) (C) (D)
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- 16). (A) (B) (C) (D)
- 17). (A) (B) (C) (D)
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- 19). (A) (B) (C) (D)
- 20). (A) (B) (C) (D)
- 21). (A) (B) (C) (D)
- 22). (A) (B) (C) (D)
- 23). (A) (B) (C) (D)
- 24). (A) (B) (C) (D)
- 25). (A) (B) (C) (D)





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