

Welder Block 2 Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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Table of Contents

Copyright 1

Table of Contents 2

Introduction 3

How to Use This Guide 4

Questions 5

Answers 8

Explanations 10

Next Steps 15

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. Information below the reference line on a welding symbol refers to which side of the weld?**
 - A. Right**
 - B. Left**
 - C. Arrow**
 - D. Other**

- 2. The yield point is the stress level at which a metal begins to deform plastically.**
 - A. Elastic**
 - B. Plastic**
 - C. Brittle**
 - D. Ultimate**

- 3. What is the purpose of a groove weld root opening?**
 - A. To increase weld bead width**
 - B. To reduce heat input**
 - C. To ensure proper root penetration and fusion at the joint root**
 - D. To create a decorative seam**

- 4. The location and spacing of the slots for a weld are shown on the basic weld symbol.**
 - A. True**
 - B. False**
 - C. Not shown**
 - D. Only on supplementary symbols**

- 5. When the finish symbol is the letter C, the weld is finished by cutting.**
 - A. True**
 - B. False**
 - C. Not specified**
 - D. Only in certain cases**

- 6. When a weld on a butt joint is welded, the work angle is 40°.**
- A. True**
 - B. False**
 - C. 30°**
 - D. 45°**
- 7. Gouging produces a V-shaped groove.**
- A. True**
 - B. False**
 - C. It produces a U-shaped groove**
 - D. It produces a rectangular groove**
- 8. Tack welds on a butt joint do not need to have complete penetration.**
- A. True**
 - B. False**
 - C. Not Applicable**
 - D. Sometimes**
- 9. Undercut is the horizontal inside corner joint usually is a(n) ____**
- A. Depression in the lower piece**
 - B. Depression along the upper edge of the weld on the vertical piece**
 - C. Depression along the outer edge of the horizontal piece**
 - D. Overhang of the metal at the toe of the weld**
- 10. The average no-load voltage in a DC arc welding circuit is ____ volts.**
- A. 10-20**
 - B. 15-30**
 - C. 60-80**
 - D. 15-40**

Answers

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1. C
2. B
3. C
4. B
5. B
6. B
7. B
8. B
9. B
10. C

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Explanations

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1. Information below the reference line on a welding symbol refers to which side of the weld?

- A. Right**
- B. Left**
- C. Arrow**
- D. Other**

In a welding symbol, the arrow points to the exact location of the weld, and where the additional information sits relative to the reference line tells you which side of the joint gets welded. Information placed below the reference line corresponds to the side toward which the arrow points—the arrow side. The same symbol placed above the line would indicate the weld on the opposite side. So, when you see details below the reference line, you're reading the requirements for the weld on the arrow side.

2. The yield point is the stress level at which a metal begins to deform plastically.

- A. Elastic**
- B. Plastic**
- C. Brittle**
- D. Ultimate**

The yield point is the stress level where permanent, plastic deformation begins. Up to this point, deformation is elastic, meaning the metal would return to its original shape if the load is removed. Once the yield point is reached, dislocations move and the material stretches plastically, so the deformation remains even after unloading. The term elastic doesn't fit because it describes reversible deformation, not permanent change. Brittle refers to materials that fracture with little or no plastic deformation, which isn't about where plasticity starts. Ultimate strength is the maximum load before necking and fracture, not the onset of plastic deformation. So the stress level at which permanent, plastic deformation begins is plastic.

3. What is the purpose of a groove weld root opening?

- A. To increase weld bead width**
- B. To reduce heat input**
- C. To ensure proper root penetration and fusion at the joint root**
- D. To create a decorative seam**

The root opening in a groove weld is about giving access to the joint root so the weld can reach and fuse there. When you set a small gap between the pieces, the heat and molten metal can travel to the very bottom of the joint, creating proper penetration and a solid bond at the root. If the opening is too small, the weld may fail to penetrate or fuse fully at the root, leading to a weak joint. If it's too large, you can end up with excessive weld metal at the root, distortion, or difficulties controlling penetration. This concept isn't about widening the bead, reducing heat input, or making a decorative seam; it specifically enables proper root penetration and fusion.

4. The location and spacing of the slots for a weld are shown on the basic weld symbol.

A. True

B. False

C. Not shown

D. Only on supplementary symbols

The basic weld symbol shows the weld type and general size, but it does not specify where along the joint the slots go or how far apart they are. Exact location on the joint and the spacing of intermittent features are provided by supplementary symbols or separate notes/dimensions attached to the weld callout. For a slot weld, you would indicate the slot dimensions and the pitch or spacing in the accompanying notes or with a supplementary indication, not inside the basic symbol. That's why the statement is not correct.

5. When the finish symbol is the letter C, the weld is finished by cutting.

A. True

B. False

C. Not specified

D. Only in certain cases

Finish symbols tell you how the weld should be finished after welding to meet the required surface quality and contour. They specify post-weld dressing, not removing or destroying the weld itself. Cutting away the weld to finish would defeat the purpose of the weld, so the finish symbol does not indicate cutting as the finishing method. In this system, a finish symbol is used to designate other finishing actions such as grinding or machining, depending on the code, not cutting. Therefore, stating that the finish is achieved by cutting is not correct.

6. When a weld on a butt joint is welded, the work angle is 40°.

A. True

B. False

C. 30°

D. 45°

In welding, the work angle is how you tilt the electrode relative to the joint surface as you weld. For a butt joint, you want the electrode to approach along the joint centerline with only a small tilt, basically near zero degrees, and only minor adjustments depending on position and process. A 40-degree tilt would push the electrode far off the centerline, making the bead asymmetric, risking poor fusion on one side or burn-through on the other. Because butt joints are straight and you aim for even heat distribution and a symmetric bead, the work angle is not 40 degrees. That's why the statement is not correct; the typical work angle for a butt joint is around zero to a few degrees, not 40.

7. Gouging produces a V-shaped groove.

- A. True
- B. False**
- C. It produces a U-shaped groove
- D. It produces a rectangular groove

Gouging uses a high-energy arc to melt and remove metal, and the molten metal is often blown away by the arc jet. This interaction tends to create a groove with a rounded bottom and curved walls, not a sharp, pointed V. The natural cross-section is more like a U-shaped groove, with the bottom formed by the deepest melting and the sides flaring outward from the arc's effect. A rectangular groove would require very flat, straight-edged walls that gouging doesn't typically produce. So, saying gouging produces a V-shaped groove isn't accurate; the common result is a U-shaped groove.

8. Tack welds on a butt joint do not need to have complete penetration.

- A. True
- B. False**
- C. Not Applicable
- D. Sometimes

Penetration is how deeply the weld fuses into the base metal. Even though tack welds are mainly used to hold parts in alignment, they are still part of the joint and should meet the same fusion expectations as the final weld. In a butt joint, insufficient penetration in tack welds can leave gaps at the joint throat or allow misalignment to develop when the final weld is applied, compromising the joint's integrity. Because of this, tack welds on a butt joint should achieve the required penetration for the joint—the idea that they don't need full penetration isn't correct.

9. Undercut is the horizontal inside corner joint usually is a(n) ____

- A. Depression in the lower piece
- B. Depression along the upper edge of the weld on the vertical piece**
- C. Depression along the outer edge of the horizontal piece
- D. Overhang of the metal at the toe of the weld

Undercut is a groove melted into the base metal at the weld toe that remains unfilled by weld metal. In a horizontal inside corner joint, this defect commonly appears as a depression along the upper edge of the weld where it meets the vertical piece. The geometry of the inner corner concentrates heat at that edge, and if the weld bead doesn't fully fill the groove, a notch forms along the upper edge of the vertical member. This weakens the joint by removing material at the weld toe rather than adding metal to fill the corner. Other descriptions describe different issues: a depression in the lower piece would not be the typical location for undercut in this joint, a depression along the outer edge of the horizontal piece is another defect, and an overhang at the toe is excess weld extending beyond the edge, not an undercut.

10. The average no-load voltage in a DC arc welding circuit is _____ volts.

- A. 10-20**
- B. 15-30**
- C. 60-80**
- D. 15-40**

The key point is the open-circuit (no-load) voltage of the welding power source. In DC arc welding, this no-load voltage is kept around 60 to 80 volts. It has to be high enough to reliably strike the arc when the electrode is brought to the work, but not so high that it creates excessive hazards when the circuit is open. Once the arc starts, the voltage drops to the arc voltage (usually around 20-40 V) while the current is controlled by the welding setting. The lower ranges in the other options wouldn't reliably initiate the arc, which is why the 60-80 volt range is the proper choice.

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Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://welderblock2.examzify.com>

We wish you the very best on your exam journey. You've got this!

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