

# Alberta Trade Entrance Practice Exam (Sample)

## Study Guide



**Everything you need from our exam experts!**

**This is a sample study guide. To access the full version with hundreds of questions,**

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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. Don't worry about getting everything right, 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, and take breaks to retain information better.**

## **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.**

## **7. Use Other Tools**

**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!**

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## Questions

- 1. Which formula is used to determine the area of a rectangle?**
  - A. Altitude x base / 2**
  - B. Length x Width**
  - C.  $\pi r^2$**
  - D.  $r^2h$**
- 2. Which institution focuses on upgrading courses specifically for trades in Alberta?**
  - A. Bow Valley College**
  - B. MacEwan University**
  - C. Grande Prairie Regional College**
  - D. Certificate Program Institutes**
- 3. When discussing weights, what unit typically represents a metric ton?**
  - A. Pound**
  - B. Kilogram**
  - C. Short ton**
  - D. Tonne**
- 4. In the context of trade entrance preparation, what does the term “upgrading courses” refer to?**
  - A. Advanced college degree programs**
  - B. Review courses that enhance skills**
  - C. Introductory high school courses**
  - D. Online courses only**
- 5. What are amounts subtracted from gross pay called?**
  - A. Salary deductions**
  - B. Pension contributions**
  - C. Deductions from earnings**
  - D. Mandatory contributions**



- 6. Which institution offers courses aimed at helping students prepare for trade entrance exams?**
- A. Northern Lakes College**
  - B. Capilano University**
  - C. Vancouver Community College**
  - D. York University**
- 7. Which measurement is used to calculate the area of a triangle?**
- A. Length x Width**
  - B. Altitude x base / 2**
  - C.  $\frac{1}{2} r^2$**
  - D.  $r^2h$**
- 8. What aspect is emphasized through the content of a study guide?**
- A. Formal training requirements**
  - B. Structure and content of the exam**
  - C. Logistics of the testing center**
  - D. Incentives for passing the exam**
- 9. The formula for calculating the circumference of a circle typically includes which mathematical constant?**
- A.  $\pi$**
  - B.  $e$**
  - C.  $\sqrt{2}$**
  - D.  $\Phi$  (Phi)**
- 10. What is the primary goal of the trade entrance exam?**
- A. To improve study habits**
  - B. To assess knowledge and skills required for various trades**
  - C. To provide a list of trades available**
  - D. To outline examination rules**

## **Answers**

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

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## **Explanations**

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**1. Which formula is used to determine the area of a rectangle?**

**A. Altitude x base / 2**

**B. Length x Width**

**C.  $\pi r^2$**

**D.  $r^2h$**

The formula used to determine the area of a rectangle is the product of its length and width. This formula reflects the fundamental concept of area, which is defined as the amount of space enclosed within the boundaries of a two-dimensional shape. In a rectangle, the length refers to one of its longer sides, while the width refers to one of its shorter sides. When you multiply these dimensions together, you effectively calculate how many square units fit inside the rectangle. This makes it easy to quantify the surface area of any given rectangle, regardless of its size. Other formulas provided in the choices pertain to different geometric shapes or concepts. For instance, the formula involving altitude and base is used for calculating the area of a triangle, while  $\pi r^2$  represents the area of a circle, and  $r^2h$  expresses the volume of a cylinder. These illustrate how area calculations vary depending on the shape being analyzed, emphasizing the importance of using the correct formula for the specific context.

**2. Which institution focuses on upgrading courses specifically for trades in Alberta?**

**A. Bow Valley College**

**B. MacEwan University**

**C. Grande Prairie Regional College**

**D. Certificate Program Institutes**

Bow Valley College is the institution that specializes in providing upgrading courses tailored specifically for trades in Alberta. It offers a range of programs aimed at enhancing the skills and knowledge of individuals pursuing careers in various trades. This institution is well-known for its commitment to vocational education and training, which prepares students to meet the workforce demands in skilled trades. Bow Valley College provides various upgrading programs that are designed to align with the needs of the local labor market. These courses often focus on practical skills and knowledge that are directly applicable in various trade fields, helping students gain the necessary credentials to advance their careers in trades-related occupations. The other choices may offer trades programs or related courses, but they do not have the same level of emphasis or specialization in upgrading courses specifically for trades as Bow Valley College does. This focused approach is crucial for students seeking to enter or transition within the skilled trades sector.

**3. When discussing weights, what unit typically represents a metric ton?**

- A. Pound**
- B. Kilogram**
- C. Short ton**
- D. Tonne**

The term 'metric ton' is synonymous with the unit 'tonne.' A tonne is defined as being equal to 1,000 kilograms, or 2,204.62 pounds, which is the standard measurement for mass in the metric system. This terminology is utilized to avoid confusion with traditional tons that vary in weight depending on the region, such as the short ton commonly used in the United States, which is equal to 2,000 pounds, or the long ton used in the UK, which is equivalent to 2,240 pounds. In practical usage, the tonne is used in contexts such as shipping, international trade, and scientific measurements, making it the correct choice when discussing a metric ton and its equivalent weight.

**4. In the context of trade entrance preparation, what does the term “upgrading courses” refer to?**

- A. Advanced college degree programs**
- B. Review courses that enhance skills**
- C. Introductory high school courses**
- D. Online courses only**

The term “upgrading courses” specifically refers to review courses that enhance skills. These courses are designed to help individuals improve their existing knowledge or acquire new skills relevant to their trade or career path. Upgrading courses often focus on specific subjects that are crucial for success in a particular field and help ensure that participants are well-prepared for their trade entrance exams or practical applications in the workforce. While advanced college degree programs may include some elements that can build skill sets, they typically represent a more extensive and broader educational pathway rather than targeted skill enhancement. Introductory high school courses provide foundational knowledge but do not specifically address the skills needed for advanced training or specific career qualifications. Lastly, while online courses can be a format through which upgrading courses are offered, upgrading courses are not limited to online formats alone; they can also be delivered in-person or through other methods. The key aspect of upgrading courses is their focus on skill enhancement.

**5. What are amounts subtracted from gross pay called?**

- A. Salary deductions**
- B. Pension contributions**
- C. Deductions from earnings**
- D. Mandatory contributions**

Amounts subtracted from gross pay are referred to as deductions from earnings. This terminology encompasses all types of reductions in an employee's total earnings, including taxes, benefits, retirement contributions, and any other withholdings that result in the final take-home pay, or net pay. Understanding this concept is important for managing finances and understanding paychecks. The term "deductions from earnings" specifically indicates that these reductions stem from the overall earnings before taxes and other withholdings are applied, making it a comprehensive term that captures the essence of various possible deductions. By recognizing the broader category of "deductions," individuals can better understand how various components affect their overall compensation and financial planning. In contrast, other options may specify particular types of deductions or contributions but do not represent the category as a whole as effectively. For example, salary deductions could suggest a specific type, while pension contributions and mandatory contributions refer to specific types of deductions rather than encompassing all possible subtractions from gross pay.

**6. Which institution offers courses aimed at helping students prepare for trade entrance exams?**

- A. Northern Lakes College**
- B. Capilano University**
- C. Vancouver Community College**
- D. York University**

Northern Lakes College offers specific courses designed to help students prepare for trade entrance exams. These courses typically focus on essential skills and knowledge required for various trades, including practical training, theoretical components, and exam preparation strategies. This targeted approach makes Northern Lakes College a suitable choice for individuals aiming to enter trade programs successfully. In contrast, the other institutions mentioned may provide a variety of educational programs, but they do not specialize in trade entrance exam preparation in the same way. Capilano University and York University, for instance, are more focused on degree programs and academic education rather than specific vocational training for trades. Vancouver Community College does offer programs related to trades, but it may not have the same tailored courses specifically aimed at preparing students for trade entrance exams as Northern Lakes College does. Therefore, the specialized offering at Northern Lakes College makes it the correct choice for this particular question.

**7. Which measurement is used to calculate the area of a triangle?**

**A. Length x Width**

**B. Altitude x base / 2**

**C.  $1/2 r^2$**

**D.  $r^2h$**

The area of a triangle is calculated using the formula that incorporates both the altitude and the base. Specifically, the area is found by taking the height (or altitude) of the triangle and multiplying it by the length of the base. Since a triangle is essentially a right-angled shape when considering the area, dividing the product of the altitude and the base by two accounts for the fact that a triangle is half of a rectangle formed by the same base and height. Thus, the correct formulation for the area of a triangle is altitude times base divided by two. The other options do not apply to triangles. For example, multiplying length by width is the method for calculating the area of a rectangle, and the formulas involving  $r$  and  $h$  pertain to circles and cylinders, respectively. Therefore, understanding the specific relationship between the base and the altitude in the context of a triangle solidifies why the correct answer is used for this calculation.

**8. What aspect is emphasized through the content of a study guide?**

**A. Formal training requirements**

**B. Structure and content of the exam**

**C. Logistics of the testing center**

**D. Incentives for passing the exam**

The emphasis of a study guide primarily revolves around the structure and content of the exam. This component is essential for preparing candidates for what they can expect during the examination process. By outlining the topics covered, the format of the questions, and the types of skills being assessed, a study guide enables students to focus their study efforts on the most relevant areas. Understanding the exam structure helps candidates to strategize their study plans effectively, ensuring they allocate appropriate time to each subject area according to its significance or complexity. Additionally, familiarization with the content aids in boosting confidence as individuals approach the exam, as they possess a clearer picture of the scope and nature of what will be tested. The other choices may offer valuable information in their own right but do not capture the central purpose of a study guide as comprehensively as the structure and content of the exam. For instance, formal training requirements lay out prerequisites but do not assist directly with exam preparation. Logistics, while important for practical exam day considerations, do not enhance one's understanding of what to study. Lastly, incentives for passing the exam might motivate candidates but do not provide insights into how to approach the material effectively.



**9. The formula for calculating the circumference of a circle typically includes which mathematical constant?**

- A.  $\pi$**
- B. e**
- C.  $\sqrt{2}$**
- D.  $\Phi$  (Phi)**

The formula for calculating the circumference of a circle is based on the relationship between the diameter of the circle and the constant  $\pi$  (pi). Specifically, the circumference (C) can be calculated using the formula  $C = \pi d$ , where d represents the diameter. Alternatively, since the radius (r) can be used as well, the formula can also be expressed as  $C = 2\pi r$ . The significance of  $\pi$  in relation to circles stems from its definition as the ratio of the circumference of a circle to its diameter. This constant is approximately equal to 3.14159 and is critical in various mathematical applications involving circles. It reflects the unique properties of circular geometry and provides a consistent method for calculating distances around a circle. The other constants mentioned—e,  $\sqrt{2}$ , and  $\Phi$  (Phi)—while important in mathematics, do not relate specifically to the calculation of a circle's circumference. For instance, e is the base of natural logarithms and is significant in calculus and growth processes;  $\sqrt{2}$  is used commonly in geometry, particularly in right triangles, and relates to the diagonal of a square; and  $\Phi$ , or the golden ratio, appears in various aspects of art and architecture but does not pertain to circle measurements. Therefore, the relationship of

**10. What is the primary goal of the trade entrance exam?**

- A. To improve study habits**
- B. To assess knowledge and skills required for various trades**
- C. To provide a list of trades available**
- D. To outline examination rules**

The primary goal of the trade entrance exam is to assess knowledge and skills required for various trades. This assessment is crucial as it ensures that applicants possess the foundational understanding and competencies needed to pursue training in their chosen trade. By evaluating candidates on relevant subject matter, the exam helps to ensure that those entering the field are adequately prepared for the rigors and demands of their specific vocational areas. This focus on evaluating readiness and capability supports both individual success and the overall standards of the trades. Understanding the skills necessary for different trades is vital, as it aligns with the industry's expectations and requirements for competent professionals.

## 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](mailto:hello@examzify.com).**

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

**<https://albertatradeentrance.examzify.com>**

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