

RED SEAL STUDY GUIDE REFRIGERATION & AIR CONDITIONING MECHANIC

YEAR 2

SAMPLE
250 EXAM PREP QUESTIONS
WITH EXPLAINED ANSWERS



APPRENTICES | INSTRUCTORS | INSTITUTES

RedSealStudyGuide.ca

UNITY CREST SOLUTIONS INC.

Who Is Red Seal Study Guide For?

Welcome to *Red Seal Study Guide*—your key to unlocking success in your trade, earning the recognition you deserve, and building a solid career in Canada. Whether you're an apprentice just starting out, a seasoned professional, or someone new to the country and adjusting to Canadian trade standards, this guide is designed to complement your learning and support you along the way. While it provides valuable insights and resources, it's not a substitute for official materials required for certification.

How We Help You Succeed

1. *Apprentices*: Looking to kickstart your career? Our study guides and practice tests will help you build the foundational skills you need to succeed.
2. *Tradespeople*: New to Canada or advancing in your career? We offer detailed questions, answers, and explanations to help you understand industry standards and excel in your work.
3. *Instructors*: Need reliable teaching tools? Our question banks and online tests are great for guiding your students through trade concepts and preparing them for certification.
4. *Educational Institutions*: Looking for tailored materials? Our study guides, quizzes, and exams are designed to fit into your existing curriculum, offering valuable resources for students.
5. *Unions*: Searching for effective ways to train your members? Our easy-to-follow format ensures that each member gains the knowledge they need to thrive in their trade.

What Red Seal Study Guide Offers:

1. *Tailored Study Guides*: Access the core knowledge you need, whether you're preparing for your exam, familiarizing yourself with Canadian trade standards, or simply refining your trade skills.
2. *Real-World Practice Tests*: Simulate actual exam conditions with online tests that help you measure your progress and improve your job-ready skills.
3. *Skill-Building Question Banks*: Strengthen your understanding with questions that not only prepare you for the exam but also help you master key concepts in your day-to-day work.
4. *In-Depth Explanations*: Get detailed explanations for each answer, helping you understand not just how, but why, the answers are correct—improving both test results and practical knowledge.
5. *Additional Learning Resources*: Dive into supplementary guides on topics like math, safety protocols, and management strategies that are valuable for both certification and long-term career growth.



Tools for Your Success

Each of these resources is crafted to ensure you're fully prepared for your Red Seal exam and ready to excel in your trade. From gaining core knowledge with our tailored study guides to testing your skills with real-world practice exams, we provide everything you need to boost your understanding. Our in-depth explanations clarify key concepts, while additional learning resources like math, safety, and management guides give you the tools to succeed in your career and continue growing as a tradesperson.

How to Use This Guide

The *Red Seal Study Guide* is a *helpful tool* designed to complement your preparation for certification exams. While it includes practice questions, explanations, and supplementary resources, it's important to use this guide *alongside your official study materials* and hands-on training. The more you combine this guide with your practical experience and provincially approved coursework, the better prepared you'll be for both your exam and your career in the trade.

Ready to Take the First Step Toward Success?

Don't let anything hold you back. Visit RedSealStudyGuide.ca to unlock the resources that will elevate your skills, boost your confidence, and secure the income and recognition you deserve. Whether you're an apprentice, a tradesperson, or an instructor, our *online tests, questions and answers, and detailed explanations* are designed to help you at every stage of your career. *Remember, this guide is a tool to help you succeed—it works best when paired with hands-on learning and official materials.*

Thousands of tradespeople have already transformed their careers, increased their income, and improved their lives with the *Red Seal Study Guide*.

Don't wait—join them today and take the next step toward your success!



Why Red Seal Study Guide?

We're committed to making trade education *accessible, flexible, and affordable* to anyone in Canada. You don't need to worry about the high cost of learning—we believe nothing should stop you from earning top wages in your trade.

This guide isn't just a quick fix—it's a tool designed to *highlight your strengths, pinpoint areas for improvement, and focus your efforts* where they matter most. Whether you choose our *online tests, questions and answers, or detailed explanations*, you'll get the right tools to prepare for whatever challenges lie ahead. *However, it's not a replacement for official training or certification resources.*

Success Stories from Real People

We've helped thousands of tradespeople—apprentices, seasoned professionals, and those new to Canada—gain the confidence and skills needed to pass their exams and advance their careers. Here's what some of our users have to say:

"The online tests in the Red Seal Study Guide were a game-changer for me as a carpenter in Canada. They gave me a clear sense of what to expect on the exam, and the questions and answers helped me focus on exactly what I needed to improve, especially in the areas I found challenging."

— James McLeod, Red Seal Carpenter

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— Arjun Patel, Automotive Service Technician

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— Samantha Greene, Hairstylist Instructor

Ready to Start Your Own Success Story?

Don't just read about others' achievements—take the first step towards your own career growth. Whether you're preparing for your exam or looking to sharpen your trade skills, *Red Seal Study Guide* has the tools to help you succeed.

Visit RedSealStudyGuide.ca and get started today!



What This Book Will Teach You

This isn't just about reading and memorizing; it's about *preparing* you for real-world challenges. At Red Seal Study Guide, we've helped thousands of people pass their exams and advance their careers. But the truth is—success takes more than book smarts. Here's what you need to know:

1. *It's not easy:* Becoming a Red Seal tradesperson requires hard work, patience, and a real dedication to learning. This guide will help you navigate the complexity, but the journey itself requires you to commit to the process. At the end, you'll not only have earned your certification but also be in a stronger position for long-term success in your career.
2. *You will need to put in effort:* Our practice tests, questions, and explanations are incredibly useful, but they can only get you so far without your own effort. You need to engage with the material and be prepared to revisit concepts to fully understand them. This preparation will also help you manage test anxiety and give you the tools to stay focused and confident when exam day comes.
3. *It's hands-on:* While this guide provides the foundational knowledge and key concepts, your true growth comes from hands-on experience in the trade. This guide is designed to complement that experience and help you feel more prepared on the job. By understanding the 'why' behind the work, you'll find yourself better equipped for both the exam and your everyday trade responsibilities.

Our online tests and question and answer sections are here to help you feel confident, prepared, and capable, but remember—they're meant to *complement*, not replace, the hands-on training you'll need to master your trade and succeed in certification.

What This Guide Is and Isn't

Before you dive into the resources, it's important to know that *Red Seal Study Guide* is a *helpful tool* designed to prepare you for your exam by offering practice questions, answers, and explanations similar to what you may encounter. However, *state requirements vary*, and this guide should be used *alongside official provincial or industry resources* to ensure you're fully prepared.



Disclaimer

Red Seal Study Guide is designed to *supplement* your preparation for certification exams and *does not replace* official materials provided by your provincial *licensing board, union, or certifying body*. While we provide valuable tools like *questions and answers* and *online tests*, success on your certification exam depends on multiple factors, including *hands-on experience, study habits, and use of official resources*.

We are not responsible for any changes in exam content or provincial regulations that occur after publication. For the latest, most accurate information, always check with your *provincial regulatory board or certifying authority*.

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Unlock Your Potential Today

Your future in the trades starts with *Red Seal Study Guide*. We're here to give you the knowledge and confidence to pass your certification exams and build a successful career. Whether you're an apprentice or experienced tradesperson, our *study guides, online tests, and questions with explanations* are designed to help you at every stage of your journey.

Visit RedSealStudyGuide.ca and take the next step toward success.



QUESTIONS



Year 2: Intermediate Concepts in Refrigeration and Air Conditioning

Subject 3. Piping, Tubing, and Ductwork Practices (Merged Topic)

1. What tool is used for cutting pipes?

- a) Hammer
- b) Wrench
- c) Screwdriver
- d) Pipe cutter

Correct Answer: d) Pipe cutter

Explanation: A pipe cutter is designed specifically for cutting pipes cleanly and efficiently. It provides a smooth cut without damaging the material, which is essential for proper fittings and connections in refrigeration and air conditioning systems. Using inappropriate tools can lead to jagged edges, causing leaks.

2. Which material is commonly used for refrigerant tubing?

- a) Copper
- b) Wood
- c) Glass
- d) Plastic

Correct Answer: a) Copper

Explanation: Copper is the most common material used for refrigerant tubing due to its excellent thermal conductivity and resistance to corrosion. It can be easily bent and joined using various techniques, making it ideal for refrigeration and air conditioning applications. Other materials may not provide the same level of performance.

3. What is the purpose of pipe bending?

- a) To increase length
- b) To reduce weight
- c) For aesthetics
- d) To change direction

Correct Answer: d) To change direction

Explanation: Pipe bending is essential for changing the direction of pipes in refrigeration and air conditioning systems. This technique helps in routing the piping around obstacles while maintaining a smooth flow of refrigerant. Proper bends can minimize pressure drops and prevent potential leaks in the system.



4. Which joint is commonly used in HVAC systems?

- a) Flanged joint
- b) Welded joint
- c) Threaded joint
- d) All of the above

Correct Answer: d) All of the above

Explanation: All types of joints—welded, threaded, and flanged—are commonly used in HVAC systems. Each type has specific applications depending on the materials and conditions involved. Understanding how to properly create and utilize these joints is crucial for ensuring system integrity and preventing failures.

5. What is the purpose of a fitting?

- a) To connect two pieces
- b) To add weight
- c) To hold pressure
- d) To change color

Correct Answer: a) To connect two pieces

Explanation: Fittings are used to connect two pieces of pipe or tubing in refrigeration and air conditioning systems. They enable the formation of complex piping arrangements and are essential for maintaining the integrity of the system. Proper selection and installation of fittings are critical to avoid leaks and ensure system efficiency.

6. What does a tubing bender do?

- a) Bends tubing
- b) Measures length
- c) Joins pipes
- d) Cuts metal

Correct Answer: a) Bends tubing

Explanation: A tubing bender is a specialized tool that allows the refrigeration and air conditioning mechanic to bend tubing at specific angles without kinking or damaging the material. It is vital for creating smooth curves in piping, which helps maintain proper refrigerant flow and system efficiency.



7. Which tool is used for joining copper pipes?

- a) Pipe wrench
- b) Soldering iron
- c) Hacksaw
- d) Measuring tape

Correct Answer: b) Soldering iron

Explanation: A soldering iron is used for joining copper pipes by melting solder, which fills the joint and creates a strong, leak-proof connection. This technique is commonly used in refrigeration and air conditioning systems, providing durability and reliability in the piping network.

8. What is the primary purpose of insulation?

- a) To improve efficiency
- b) To reduce noise
- c) To prevent corrosion
- d) To add weight

Correct Answer: a) To improve efficiency

Explanation: Insulation is primarily used to improve the efficiency of refrigeration and air conditioning systems by minimizing heat exchange with the environment. Proper insulation helps maintain the desired temperature of refrigerants, reducing energy consumption and operational costs while preventing condensation and potential damage.

9. What is a flare joint?

- a) A type of weld
- b) A twisted connection
- c) A threaded connection
- d) A soldered joint

Correct Answer: c) A threaded connection

Explanation: A flare joint involves creating a conical shape at the end of a pipe, which is then screwed onto a matching fitting. This type of joint provides a strong, leak-free connection commonly used in refrigeration and air conditioning applications, especially for high-pressure refrigerant lines.



10. Why is proper pipe sizing important?

- a) To prevent leaks
- b) For aesthetic reasons
- c) To maintain pressure
- d) To reduce cost

Correct Answer: c) To maintain pressure

Explanation: Proper pipe sizing is crucial for maintaining the correct pressure in refrigeration and air conditioning systems. If pipes are too large or too small, it can lead to inefficiencies, increased energy consumption, and potential system failures. Correct sizing ensures optimal refrigerant flow and system performance.

11. What is the role of a coupling?

- a) To insulate pipes
- b) To join two pipes
- c) To bend pipes
- d) To cut pipes

Correct Answer: b) To join two pipes

Explanation: A coupling is a fitting used to join two sections of pipe or tubing together. It can be threaded, welded, or soldered depending on the application and material. Proper use of couplings is essential for ensuring leak-free connections in refrigeration and air conditioning systems.

12. When should a pipe be replaced?

- a) When it is dirty
- b) When it is painted
- c) When it is visible
- d) When it is leaking

Correct Answer: d) When it is leaking

Explanation: A pipe should be replaced when it is leaking, as leaks can lead to refrigerant loss, reduced system efficiency, and potential environmental hazards. Regular inspections can help identify leaks early, allowing for timely repairs or replacements to maintain system integrity and performance.



13. What is a refrigerant flow control?

- a) A measuring device
- b) A joining method
- c) A type of insulation
- d) A valve mechanism

Correct Answer: d) A valve mechanism

Explanation: A refrigerant flow control is a valve mechanism that regulates the flow of refrigerant within a system. It ensures that the correct amount of refrigerant is delivered to the evaporator or condenser, which is vital for maintaining system efficiency and preventing issues like flooding or starvation.

14. What is the function of a tee fitting?

- a) To insulate a joint
- b) To cut a pipe
- c) To connect three pipes
- d) To bend a pipe

Correct Answer: c) To connect three pipes

Explanation: A tee fitting is used to connect three sections of pipe, allowing for a branch line to be formed. This is particularly useful in refrigeration and air conditioning systems where multiple paths for refrigerant are necessary. Proper installation ensures optimal flow and system efficiency.

15. What does pressure testing check?

- a) Leak integrity
- b) Pipe color
- c) Pipe alignment
- d) Pipe weight

Correct Answer: a) Leak integrity

Explanation: Pressure testing is performed to check the leak integrity of the piping system. By applying pressure and monitoring for drops, a refrigeration and air conditioning mechanic can identify any leaks that may compromise system efficiency. This is a critical step in ensuring the reliability of the system.



16. Which type of pipe is used for high-pressure refrigerants?

- a) Steel
- b) Aluminum
- c) PVC
- d) Copper

Correct Answer: d) Copper

Explanation: Copper is preferred for high-pressure refrigerants due to its strength, thermal conductivity, and resistance to corrosion. It can withstand the pressures generated in refrigeration and air conditioning systems, making it a reliable choice for tubing and piping in these applications.

17. What is the purpose of a union fitting?

- a) To connect easily
- b) To bend
- c) To cut
- d) To insulate

Correct Answer: a) To connect easily

Explanation: A union fitting is designed to easily connect and disconnect two pipes without the need for cutting or welding. This allows for easier maintenance and repair of refrigeration and air conditioning systems, as it facilitates quick access to various components without disrupting the entire system.

18. Which tool is best for measuring pipes?

- a) Hammer
- b) Level
- c) Measuring tape
- d) Ruler

Correct Answer: c) Measuring tape

Explanation: A measuring tape is the best tool for measuring pipes accurately. It provides the flexibility needed to measure around curves and irregular shapes, which is common in refrigeration and air conditioning applications. Accurate measurements are crucial for proper fitting and installation.



19. What is a solder joint?

- a) A glued connection
- b) A molten metal joint
- c) A thread connection
- d) A welded connection

Correct Answer: b) A molten metal joint

Explanation: A solder joint is formed by melting solder to join two pieces of metal, typically copper, in refrigeration and air conditioning systems. This method creates a strong and leak-proof connection when done correctly, making it essential for durable and efficient system performance.

20. What does a refrigerant do?

- a) Cuts tubing
- b) Cools air
- c) Joins fittings
- d) Insulates pipes

Correct Answer: b) Cools air

Explanation: The primary function of a refrigerant is to cool air by absorbing heat and transferring it through the system. In refrigeration and air conditioning, the refrigerant circulates through the tubing and components, enabling the cooling effect that maintains desired indoor temperatures.

21. When should soft copper tubing be used?

- a) For flexibility
- b) For rigidity
- c) For high pressure
- d) For low pressure

Correct Answer: a) For flexibility

Explanation: Soft copper tubing is used when flexibility is required, such as in tight spaces or when making bends. It can be easily shaped and installed, making it ideal for various refrigeration and air conditioning applications where rigid materials would be impractical.



22. What does a capillary tube do?

- a) Reduces flow
- b) Joins two pipes
- c) Controls refrigerant flow
- d) Increases pressure

Correct Answer: c) Controls refrigerant flow

Explanation: A capillary tube controls refrigerant flow in a refrigeration system by providing a precise restriction. It helps regulate the amount of refrigerant entering the evaporator, ensuring efficient heat exchange and maintaining system performance. Proper sizing and installation are critical to its effectiveness.

23. What is the purpose of a drain pan?

- a) To insulate pipes
- b) To connect pipes
- c) To hold refrigerant
- d) To catch water

Correct Answer: d) To catch water

Explanation: A drain pan is used to catch water that may accumulate from condensation in refrigeration and air conditioning systems. It prevents water damage and maintains system efficiency by ensuring that excess moisture is directed away from critical components, protecting the overall system.

24. What is the benefit of using a valve?

- a) To control flow
- b) To add insulation
- c) To change color
- d) To bend pipes

Correct Answer: a) To control flow

Explanation: A valve allows the refrigeration and air conditioning mechanic to control the flow of refrigerant within the system. This capability is essential for regulating pressure, maintaining efficiency, and ensuring proper operation of different components within the HVAC system.



25. What is the first step in cutting pipe?

- a) Choose tool
- b) Mark cut
- c) Measure length
- d) Apply heat

Correct Answer: c) Measure length

Explanation: The first step in cutting pipe is to measure the desired length accurately. This ensures that the pipe will fit properly within the system and reduces waste. Accurate measurement is critical to the success of the installation and the overall efficiency of the refrigeration and air conditioning system.



Subject - 1

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About the Creators:

Bobby Bedi:

Bobby Bedi, co-creator of the Red Seal Study Guide, calls the Pacific Northwest home, where he has built an extensive career spanning more than two decades. His diverse background, which includes architecture, digital innovation, and industrial marketing, has given him a unique ability to bridge traditional industries with cutting-edge digital solutions. Bobby has worked across a spectrum of industries, from agile startups to publicly traded companies and educational platforms, bringing a depth of experience that has been crucial to the platform's success.

Bobby's precision and problem-solving skills, refined through his years in architecture, have seamlessly transitioned into his work in digital marketing and technology. Since 2006, Bobby has been at the forefront of digital innovation, applying his expertise to transform trade education. He has been instrumental in developing cutting-edge, user-friendly platforms that make learning accessible across the globe, combining technology with education to create impactful online experiences.

As co-creator of the platform, Bobby also plays a key role in the industrial sector, where he helps companies scale by leveraging his expertise in digital marketing and business strategy. His dedication to making education affordable and impactful has driven the growth of the Red Seal Study Guide, ensuring that individuals at every stage of their careers have access to quality learning tools.

Kris McFarlane:

Kris McFarlane, co-creator of the Red Seal Study Guide, has over two decades of experience in business development, education, and the trades. Based in the Pacific Northwest, Kris has worked with a range of organizations—from agile startups to publicly traded companies—driving business growth and developing successful strategies across industries. His expertise in scaling businesses and creating educational platforms has been key to the guide's reach and effectiveness.

Kris's deep roots in the trades and industrial sector, paired with his extensive experience in business development, give him a unique ability to understand both the practical and strategic needs of companies and individuals. His leadership and ability to mentor others have helped shape the platform, making it a go-to resource for tradespeople seeking career advancement and certification.

Having struggled with traditional education early in life, Kris understands the importance of making learning accessible for everyone. His passion for empowering others, especially those who feel underserved by conventional education systems, is reflected in every aspect of the Red Seal Study Guide. Kris's work is driven by a commitment to helping aspiring tradespeople succeed in their careers through affordable, practical, and accessible learning resources.

Work with the Creators

As co-creators of the Red Seal Study Guide, Bobby Bedi and Kris McFarlane draw from extensive experience working with agile startups, publicly traded companies, and education platforms. Their combined expertise has shaped a platform that empowers businesses and individuals alike. To learn more or explore opportunities with the *Unity Crest Solutions team*, visit UnityCrestSolutions.com, where they continue to help organizations and people succeed.



About Unity Crest Solutions

At *Unity Crest Solutions*, our mission is clear: *Unite, Educate, and Innovate*. We stand at the forefront of *technological* and *educational* innovation, solving global business challenges with strategic, cutting-edge solutions. Founded on the core principles of *accessibility*, *efficiency*, and *continuous improvement*, Unity Crest has become a driving force in transforming industries and empowering organizations across diverse sectors.

Our team of visionary leaders—experts in *AI development*, *offshoring strategies*, and *comprehensive marketing*—is committed to delivering *tangible results* that boost progress and profitability. We specialize in *workforce empowerment*, offering tailored solutions to equip professionals and organizations with the tools they need to thrive in today's fast-paced global marketplace.

Unite, Educate, and Innovate

At Unity Crest, we believe in the power of *unity and education* to drive innovation. By bringing together *teams, technology, and knowledge*, we empower our clients to seize new opportunities and foster long-term growth.

Our Expertise Includes:

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With offices in *North America* and *South Asia*, Unity Crest Solutions provides localized solutions with a *global mindset*. Whether you're streamlining operations or scaling your business, we have the expertise to meet your needs.

Let's Work Together

Ready to *unite* your resources, *educate* your workforce, and *innovate* for the future? Visit UnityCrestSolutions.com to learn more and start a conversation about your path to success.



Disclaimer

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The questions, answers, and explanations provided are intended to help you gain a broader understanding of trade concepts and common exam formats. However, these materials are *general study aids* and do not guarantee a passing score on any official certification exam. Your success depends on factors such as your *practical experience*, *study habits*, and use of official resources from your province or certifying body. For best results, we recommend using this guide alongside the most current materials issued by your local authorities.

Red Seal Study Guide and *Unity Crest Solutions Inc.* are not responsible for any inaccuracies, updates, or changes in exam content, regulations, or certification processes that may occur after publication. It is your responsibility to stay informed of any updates or changes to your trade's certification process. Always refer to your provincial *regulatory board*, *trade union*, or *official exam providers* for the most accurate and up-to-date information.

This guide is intended for *educational purposes only* and is not a substitute for formal trade education, apprenticeship programs, or other accredited training. *Hands-on experience* and *formal training* are essential components of trade certification, and this guide is meant to complement—not replace—those elements.

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We're here to support your journey toward becoming a certified tradesperson. However, your success ultimately depends on your own effort, practical experience, and thorough preparation with official resources.



Unlock Your Potential with the Red Seal Study Guide

Set yourself on the path to excellence with the *Red Seal Study Guide*, your essential resource for tradespeople at all stages of their career. Whether you're preparing for your *Red Seal exam*, navigating *Canadian trade standards* as someone new to Canada, or simply looking to enhance your skills, this guide provides the tools you need to succeed.

Our guide offers practical insights and knowledge to boost your confidence and improve your understanding of core concepts.

What We Offer:

1. *Online Tests*: Simulate real-world exam scenarios to assess your readiness, build your confidence, and ensure you're fully prepared for the challenges ahead—whether you're new to the trade or navigating Canadian standards.
2. *Question and Answer*: Target key concepts with questions designed to sharpen your trade skills and improve your understanding—perfect for tradespeople at any stage of their career.
3. *Questions, Answers, and Explanations*: Go beyond just memorizing answers. Gain deeper insights into the reasoning behind each question, helping you master not only the exam but also real-world applications on the job.

Each of these resources is crafted to ensure you're prepared for your Red Seal exam and to excel in your trade. By offering tailored support for *real-world skills*, we help you gain confidence, refine your knowledge, and stay ahead in your career.

Success Stories

"The online tests in the Red Seal Study Guide were a game-changer for me as a carpenter in Canada. They gave me a clear sense of what to expect on the exam, and the questions and answers helped me focus on exactly what I needed to improve on." — James McLeod, Red Seal Carpenter

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Are You Ready to Take the Next Step?

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We are committed to making trade education accessible, flexible, and affordable for everyone in Canada. You shouldn't have to worry about the cost of learning—our goal is to make sure nothing holds you back from reaching your full potential.

The *Red Seal Study Guide* is not just a quick fix; it's a tool designed to highlight your strengths, identify areas for improvement, and focus your efforts where they matter most. Join thousands of successful tradespeople who have advanced their careers with our guide. Visit us at RedSealStudyGuide.ca.



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