

RED SEAL STUDY GUIDE HAZARDOUS MATERIALS TECHNICIAN YEAR 1

**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

"As a hairstyling instructor, I rely on the Red Seal Study Guide's question and answer sections to reinforce my students' learning. The online tests are a fantastic tool for tracking their progress and ensuring they're fully prepared for the exam."

— 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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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 1: Fundamentals of Hazardous Materials Handling and Safety
Subject 3. Chemical Properties and Hazard Identification

1. What does NFPA 704 stand for?

- a) National Fire Program Association
- b) National Fire Protection Association
- c) National Fire Prevention Agency
- d) National Fire Prevention Association

Correct Answer: b) National Fire Protection Association

Explanation: The NFPA 704 system is a color-coded labeling system used to identify the hazards of materials. It features a diamond shape divided into four quadrants that indicate health, flammability, instability, and specific hazards. Understanding this system is vital for Hazardous Materials Technicians to ensure safety in handling and storage.

2. What color indicates health hazards in NFPA?

- a) Blue
- b) Red
- c) White
- d) Yellow

Correct Answer: a) Blue

Explanation: In the NFPA 704 system, the blue quadrant represents health hazards, with numbers ranging from 0 (no hazard) to 4 (severe hazard). Hazardous Materials Technicians must recognize this color to assess the potential health risks associated with exposure to chemical substances effectively, ensuring proper safety measures are taken.

3. Which number indicates a severe flammability hazard?

- a) 4
- b) 3
- c) 2
- d) 1

Correct Answer: a) 4

Explanation: In the NFPA 704 system, the number 4 in the red quadrant signifies a severe flammability hazard. Hazardous Materials Technicians need to identify such risks to implement appropriate safety protocols when working with highly flammable materials, thereby reducing the likelihood of fire-related incidents during handling and storage.



4. What does a yellow diamond signify?

- a) Specific hazards
- b) Reactivity risks
- c) Health risks
- d) Flammability risks

Correct Answer: b) Reactivity risks

Explanation: The yellow diamond in the NFPA 704 system indicates reactivity hazards, with ratings from 0 (stable) to 4 (may detonate). Hazardous Materials Technicians must recognize these symbols to evaluate the stability of materials and develop strategies to mitigate the risks associated with reactive substances during their operations.

5. What does the white quadrant indicate?

- a) Reactivity risks
- b) Health hazards
- c) Flammability risks
- d) Special hazards

Correct Answer: d) Special hazards

Explanation: The white quadrant of the NFPA 704 system represents special hazards, such as radiation or acid. Hazardous Materials Technicians must be aware of these specific hazards to take necessary precautions when dealing with substances that pose unique risks, ensuring a safe working environment and compliance with safety regulations.

6. Which odor might indicate a toxic gas?

- a) Sweet
- b) Fresh
- c) Rotten eggs
- d) Floral

Correct Answer: c) Rotten eggs

Explanation: The smell of rotten eggs typically indicates the presence of hydrogen sulfide, a highly toxic gas. Hazardous Materials Technicians should be trained to recognize such odors as warning signs of potential hazards, allowing them to take protective measures and avoid dangerous exposure when assessing unknown substances.



7. What is a common visual clue of a corrosive substance?

- a) Discoloration of materials
- b) Clear liquid
- c) Colored gas
- d) Cloudy appearance

Correct Answer: a) Discoloration of materials

Explanation: Corrosive substances often cause visible damage, such as discoloration or degradation of materials they contact. Hazardous Materials Technicians must identify these visual clues to assess the risks involved and to ensure proper handling, containment, and cleanup of corrosive materials to prevent injury or environmental damage.

8. Which NFPA color indicates a low hazard?

- a) Red
- b) Yellow
- c) Green
- d) Blue

Correct Answer: c) Green

Explanation: While not officially part of the NFPA 704 color scheme, a green indicator is often used in safety contexts to signify low hazards or safe conditions. Hazardous Materials Technicians should be familiar with this concept to better assess the overall safety of a chemical environment and to communicate effectively regarding substance risks.

9. Which chemical state is most likely to produce strong odors?

- a) Plasma
- b) Solid
- c) Liquid
- d) Gas

Correct Answer: d) Gas

Explanation: Gases are often more volatile and can easily disperse, producing strong odors that serve as warning signs of potential hazards. Hazardous Materials Technicians must be trained to detect and respond to these odors to ensure safety during assessments and when working with unknown substances in various states of matter.



10. What does a placard with a skull symbol indicate?

- a) Corrosive material
- b) Flammable material
- c) Reactive substance
- d) Toxic substance

Correct Answer: d) Toxic substance

Explanation: A placard featuring a skull and crossbones symbol indicates the presence of toxic substances that pose serious health risks. Hazardous Materials Technicians must recognize these symbols to take necessary precautions, including using appropriate personal protective equipment and following safety protocols when handling or responding to hazardous materials.

11. Which NFPA number signifies a health hazard?

- a) 2
- b) 1
- c) 4
- d) 3

Correct Answer: c) 4

Explanation: The NFPA 704 system uses the number 4 in the blue quadrant to indicate a severe health hazard. Hazardous Materials Technicians must understand these ratings to evaluate risks effectively and implement safety measures to protect themselves and others from potentially life-threatening exposures during their work with hazardous materials.

12. What is the primary purpose of chemical labels?

- a) Legal requirements
- b) Decoration
- c) Identification of hazards
- d) Marketing

Correct Answer: c) Identification of hazards

Explanation: The primary purpose of chemical labels is to provide clear identification of the hazards associated with the substance. This information helps Hazardous Materials Technicians understand the risks involved and take appropriate precautions, ensuring safety during handling, storage, and disposal of hazardous materials in various settings.



13. What does a yellow color on a chemical label indicate?

- a) Highly flammable
- b) Health hazard
- c) Corrosive
- d) Reactivity

Correct Answer: d) Reactivity

Explanation: A yellow color on a chemical label typically indicates the reactivity of the substance, which can range from stable to highly reactive. Hazardous Materials Technicians must be able to interpret these labels to assess risks and determine the safe handling and storage procedures necessary to prevent dangerous reactions.

14. Which odor suggests a chemical is flammable?

- a) Minty
- b) Fruity
- c) Burnt
- d) Fishy

Correct Answer: b) Fruity

Explanation: A fruity odor often indicates the presence of flammable chemicals, such as certain solvents or esters. Hazardous Materials Technicians should recognize such smells as potential warning signs and take necessary precautions to minimize risks of ignition and ensure a safe working environment when identifying unknown substances.

15. What type of hazard does a red placard indicate?

- a) Reactive
- b) Flammable
- c) Toxic
- d) Corrosive

Correct Answer: b) Flammable

Explanation: A red placard is used to indicate flammability hazards in the NFPA 704 system. Hazardous Materials Technicians must be aware of this color coding to assess the risks associated with handling flammable substances and to implement appropriate safety measures, including the use of fire extinguishing equipment and proper storage protocols.



16. What is the first step in identifying unknown substances?

- a) Smelling
- b) Mixing
- c) Visual inspection
- d) Searching labels

Correct Answer: c) Visual inspection

Explanation: Visual inspection is often the first step in identifying unknown substances. Hazardous Materials Technicians examine the physical characteristics, such as color, state, and any visible reactions, to gather information. This initial assessment helps in determining the potential hazards and informs further steps in chemical analysis and safety precautions.

17. What does a blue quadrant with 2 signify?

- a) Severe health hazard
- b) No health hazard
- c) Minimal hazard
- d) Moderate health hazard

Correct Answer: d) Moderate health hazard

Explanation: A blue quadrant marked with the number 2 signifies a moderate health hazard. Hazardous Materials Technicians must be trained to interpret these numbers to ensure they take appropriate measures, such as using personal protective equipment, to reduce the risk of exposure to chemicals classified with moderate health risks.

18. What type of hazard does a number 3 in red indicate?

- a) Corrosive
- b) Highly flammable
- c) Low reactivity
- d) Moderate health hazard

Correct Answer: b) Highly flammable

Explanation: A number 3 in the red quadrant of the NFPA 704 system indicates a highly flammable hazard. Hazardous Materials Technicians must recognize this rating to implement strict safety protocols when working with such materials, helping to prevent fire incidents and ensuring safe handling practices during operations involving flammable substances.



19. What is a common sign of a corrosive chemical?

- a) Bright color
- b) Solid form
- c) Clear solution
- d) Fuming vapors

Correct Answer: d) Fuming vapors

Explanation: Corrosive chemicals often produce fuming vapors that can cause harm upon exposure. Hazardous Materials Technicians should be trained to recognize these signs, as they indicate the need for immediate protective measures, including the use of appropriate personal protective equipment and ventilation to ensure safety when handling corrosive substances.

20. What does the NFPA system help identify?

- a) Regulations
- b) Hazardous characteristics
- c) Chemical costs
- d) Chemical suppliers

Correct Answer: b) Hazardous characteristics

Explanation: The NFPA system helps identify the hazardous characteristics of chemicals, enabling Hazardous Materials Technicians to assess risks associated with handling, storing, and transporting materials. Understanding these characteristics is critical for ensuring proper safety measures and compliance with regulations, ultimately protecting workers and the environment from potential harm.

21. What does a strong ammonia smell indicate?

- a) Reactive substance
- b) Corrosive material
- c) Safe environment
- d) Toxic hazard

Correct Answer: d) Toxic hazard

Explanation: A strong ammonia smell indicates the presence of a toxic hazard, often associated with ammonia gas. Hazardous Materials Technicians need to identify such odors to take proper precautions, including using personal protective equipment and ensuring proper ventilation to mitigate exposure risks and protect themselves and others in the environment.



22. Which NFPA color indicates no hazard?

- a) White
- b) Blue
- c) Yellow
- d) Green

Correct Answer: d) Green

Explanation: Although not officially part of the NFPA 704 system, a green indicator is commonly associated with no hazards or safe conditions in various safety contexts. Hazardous Materials Technicians should recognize this association to better evaluate environments and communicate effectively about the safety levels of chemicals and materials being handled.

23. What does a gas with a sharp odor often indicate?

- a) Flammable gas
- b) Safe material
- c) Toxic gas
- d) Corrosive gas

Correct Answer: c) Toxic gas

Explanation: A gas with a sharp odor often indicates the presence of a toxic gas, such as chlorine or ammonia. Hazardous Materials Technicians must be trained to recognize these warning signs to take immediate action, including evacuation and protective measures, to ensure safety when working in environments where these gases may be present.

24. How should Hazardous Materials Technicians assess unknown substances?

- a) Conduct tests without precautions
- b) Avoid all contact
- c) Guess based on smell
- d) Rely on visual clues

Correct Answer: d) Rely on visual clues

Explanation: Hazardous Materials Technicians should rely on visual clues, such as color, state, and any visible reactions, to assess unknown substances. This initial evaluation allows them to identify potential hazards and inform further safety measures, ensuring they handle materials responsibly and minimize risks associated with chemical exposure.



25. What is the primary goal of using chemical labels?

- a) Marketing
- b) Compliance with laws
- c) Safety information
- d) Aesthetic appeal

Correct Answer: c) Safety information

Explanation: The primary goal of using chemical labels is to provide essential safety information about the hazards associated with a substance. This enables Hazardous Materials Technicians to understand the risks involved and implement appropriate safety measures, ensuring safe handling, storage, and disposal of hazardous materials in various environments and applications.



Subject - 1

- 1). (A) (B) (C) (D) 6). (A) (B) (C) (D) 11). (A) (B) (C) (D)
- 2). (A) (B) (C) (D) 7). (A) (B) (C) (D) 12). (A) (B) (C) (D)
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- 20). (A) (B) (C) (D) 25). (A) (B) (C) (D)



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.

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Unite, Educate, and Innovate

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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.

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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.



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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?

With the *Red Seal Study Guide* in hand, you are well-equipped to tackle the challenges of your trade and step confidently into your career as a certified tradesperson.

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.

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