

JOURNEYMAN STUDY GUIDE ELECTRICIAN INDUSTRIAL YEAR 4

**250 EXAM PREP QUESTIONS,
WITH EXPLAINED ANSWERS**



APPRENTICES | INSTRUCTORS | INSTITUTES

JourneymanStudyGuide.com

UNITY CREST SOLUTIONS INC.

Who Is Journeyman Study Guide For?

Welcome to *Journeyman Study Guide*—your key to unlocking success in your trade, earning the recognition you deserve, and building a solid career in America. Whether you're an apprentice just starting out, a seasoned professional, or someone new to the country and adjusting to U.S. 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 the U.S. 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 Journeyman Study Guide Offers:

1. *Tailored Study Guides*: Access the core knowledge you need, whether you're preparing for your exam, familiarizing yourself with U.S. 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 Journeyman 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 *Journeyman 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 state-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 *JourneymanStudyGuide.com* 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 *Journeyman Study Guide*.

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



Why Journeyman Study Guide?

We're committed to making trade education *accessible, flexible, and affordable* to anyone in America. 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 America—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 Journeyman Study Guide were a game-changer. 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 areas I had struggled with before."

— Jessica Taylor, Apprentice Ironworker

"Journeyman's *questions, answers, and explanations* made it easier for me to understand the trade standards here in the U.S. The *detailed explanations* filled gaps in my knowledge and gave me the confidence to pass my exams."

— Carlos Ramirez, Electrician, originally from Mexico

"As a union instructor, I rely on the *Journeyman Study Guide's question and answer sections* to reinforce my students' learning. The *online tests* are a great way to track their progress and make sure they're ready for the real exam."

— John Davis, Union Welding 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, *Journeyman Study Guide* has the tools to help you succeed.

Visit JourneymanStudyGuide.com 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 Journeyman 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 certified journeyman 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 *Journeyman 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 state or industry resources* to ensure you're fully prepared.



Disclaimer

Journeyman Study Guide is designed to *supplement* your preparation for certification exams and *does not replace* official materials provided by your state's *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 state regulations that occur after publication. For the latest, most accurate information, always check with your *state regulatory board or certifying authority*.

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Unlock Your Potential Today

Your future in the trades starts with *Journeyman 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 JourneymanStudyGuide.com and take the next step toward success.



SNOW STUDS QUEST



Year 4: Specialization, Leadership, and Certification

Subject 3. Energy Management and Renewable System Integration

1. What is the purpose of an energy audit?

- a) Limit energy use
- b) Increase energy costs
- c) Identify energy waste
- d) Reduce equipment lifespan

Correct Answer: c) Identify energy waste

Explanation: An energy audit is a systematic evaluation of energy consumption in a facility. It identifies areas where energy is being wasted and provides recommendations for improvements. By pinpointing inefficiencies, an energy audit helps to optimize energy use, reduce costs, and enhance overall energy performance in an industrial setting.

2. Which renewable energy source is most common?

- a) Biomass energy
- b) Solar energy
- c) Wind power
- d) Geothermal energy

Correct Answer: b) Solar energy

Explanation: Solar energy is the most common renewable energy source utilized in North America due to its abundance and versatility. Solar panels can be installed on rooftops or in large fields, making it accessible for residential, commercial, and industrial applications. Its decreasing cost and technology advancements have further increased its adoption.

3. What does energy efficiency aim to improve?

- a) Energy storage
- b) Energy waste
- c) Energy generation
- d) Energy consumption

Correct Answer: d) Energy consumption

Explanation: Energy efficiency aims to improve energy consumption by optimizing processes and systems to use less energy while maintaining the same output. This involves upgrading equipment, enhancing operational practices, and implementing energy-saving technologies. Improving energy efficiency not only reduces costs but also minimizes environmental impacts and contributes to sustainability efforts.



4. Which system integrates renewable energy into industrial grids?

- a) Standalone system
- b) Traditional grid
- c) Smart grid
- d) Microgrid

Correct Answer: c) Smart grid

Explanation: A smart grid integrates renewable energy sources like solar and wind into the existing industrial grid. It utilizes advanced communication and information technologies to manage energy flow efficiently, enhance reliability, and accommodate variable energy sources. This integration supports better decision-making for energy distribution and consumption, leading to improved sustainability.

5. What is the benefit of using energy management systems?

- a) Limited energy access
- b) Higher operational costs
- c) Optimized energy usage
- d) Increased energy waste

Correct Answer: c) Optimized energy usage

Explanation: Energy management systems (EMS) provide tools and strategies to monitor and optimize energy usage in industrial facilities. They collect data on energy consumption patterns, enabling facility managers to identify inefficiencies and implement corrective actions. By optimizing energy use, EMS can lead to significant cost savings and enhanced operational performance.

6. What is a key component of conducting energy audits?

- a) Employee interviews
- b) Financial analysis
- c) Market research
- d) Equipment inspections

Correct Answer: d) Equipment inspections

Explanation: Equipment inspections are a key component of conducting energy audits, as they help identify inefficiencies and areas for improvement in energy use. By examining machinery, lighting systems, and HVAC units, auditors can determine how well each component operates and suggest upgrades or replacements to enhance overall efficiency and reduce energy consumption.



7. How does solar energy reduce operational costs?

- a) Lowers electricity bills
- b) Raises maintenance expenses
- c) Requires additional training
- d) Increases equipment demand

Correct Answer: a) Lowers electricity bills

Explanation: Solar energy reduces operational costs primarily by lowering electricity bills. By generating electricity from solar panels, facilities can decrease their reliance on grid power, leading to significant savings over time. Additionally, many governments offer incentives and tax credits for solar installations, further enhancing the financial benefits for industrial operations.

8. What is a common method to assess energy efficiency?

- a) Random selection
- b) Ignoring data
- c) Guesswork
- d) Benchmarking

Correct Answer: d) Benchmarking

Explanation: Benchmarking is a common method used to assess energy efficiency by comparing a facility's energy performance against similar operations or industry standards. Through this process, organizations can identify areas of improvement and set realistic goals for energy reduction. Benchmarking helps in establishing best practices and drives continuous improvement in energy management.

9. What is a primary goal of renewable energy integration?

- a) Enhance energy reliability
- b) Limit energy access
- c) Decrease energy resilience
- d) Increase fossil fuel use

Correct Answer: a) Enhance energy reliability

Explanation: The primary goal of renewable energy integration is to enhance energy reliability. By incorporating diverse renewable sources, such as solar and wind, industrial grids can benefit from improved energy diversification and stability. This integration helps reduce dependence on fossil fuels while providing consistent power supply, even during peak demand periods or outages.



10. What do energy efficiency measures typically include?

- a) Increased power consumption
- b) Equipment upgrades
- c) Limited maintenance
- d) Higher operational costs

Correct Answer: b) Equipment upgrades

Explanation: Energy efficiency measures typically include equipment upgrades that enhance operational performance while reducing energy consumption. These upgrades may involve replacing outdated machinery with energy-efficient models, retrofitting lighting, or optimizing heating and cooling systems. Such improvements lead to cost savings, reduced environmental impact, and a more sustainable operational framework.

11. Which renewable source is best for remote areas?

- a) Natural gas
- b) Coal energy
- c) Ocean energy
- d) Solar energy

Correct Answer: d) Solar energy

Explanation: Solar energy is often the best renewable source for remote areas due to its accessibility and ease of installation. Photovoltaic systems can be deployed in locations without access to conventional power grids, providing essential electricity for homes and businesses. Its scalability and decreasing costs make solar an ideal choice for off-grid applications.

12. What is the role of inverters in solar systems?

- a) Store electrical energy
- b) Increase energy loss
- c) Convert AC to DC
- d) Convert DC to AC

Correct Answer: d) Convert DC to AC

Explanation: Inverters play a crucial role in solar systems by converting the direct current (DC) generated by solar panels into alternating current (AC), which is the standard electricity form used in homes and industries. This conversion is essential for integrating solar energy into the grid and ensuring that generated power can be utilized effectively.



13. What technology enhances energy system efficiency?

- a) Old generators
- b) Manual controls
- c) Basic switches
- d) Smart meters

Correct Answer: d) Smart meters

Explanation: Smart meters enhance energy system efficiency by providing real-time data on energy consumption, enabling users to monitor usage patterns and make informed decisions. This technology allows for demand response programs, where users can adjust their consumption based on pricing signals, ultimately leading to optimized energy management and cost savings.

14. Which factor impacts energy efficiency in industrial processes?

- a) Brand popularity
- b) Aesthetic design
- c) Equipment age
- d) Employee satisfaction

Correct Answer: c) Equipment age

Explanation: Equipment age significantly impacts energy efficiency in industrial processes. Older machinery tends to operate less efficiently due to wear and tear, outdated technology, and increased energy consumption. Upgrading to newer, energy-efficient equipment can lead to substantial improvements in performance, reduced operational costs, and lower environmental impact.

15. What is a benefit of energy-efficient lighting?

- a) Frequent replacements
- b) Longer lifespan
- c) Increased energy costs
- d) More heat emission

Correct Answer: b) Longer lifespan

Explanation: Energy-efficient lighting, such as LED bulbs, offers the benefit of a longer lifespan compared to traditional incandescent bulbs. This not only reduces the frequency of replacements but also decreases maintenance costs and energy consumption. The combination of longevity and efficiency contributes to overall savings in both energy use and operational expenses.



16. How can wind energy benefit industrial facilities?

- a) Requires constant monitoring
- b) Limits energy access
- c) Reduces carbon footprint
- d) Increases utility bills

Correct Answer: c) Reduces carbon footprint

Explanation: Wind energy can significantly benefit industrial facilities by reducing their carbon footprint. Utilizing wind turbines to generate power decreases reliance on fossil fuels, leading to lower greenhouse gas emissions. By adopting renewable energy sources like wind, industries can enhance their sustainability efforts and contribute positively to environmental protection initiatives.

17. What is the purpose of demand response programs?

- a) Increase energy prices
- b) Decrease energy storage
- c) Limit energy access
- d) Shift energy consumption

Correct Answer: d) Shift energy consumption

Explanation: The purpose of demand response programs is to shift energy consumption during peak demand periods to help stabilize the grid. Participants are incentivized to reduce or shift their energy use, which can lead to cost savings and prevent the need for additional power generation. These programs promote energy efficiency and enhance overall grid reliability.

18. What is a common barrier to renewable energy adoption?

- a) Limited government incentives
- b) Abundant resources
- c) High upfront costs
- d) Low installation costs

Correct Answer: c) High upfront costs

Explanation: A common barrier to renewable energy adoption is the high upfront costs associated with installation and setup. Although long-term savings can be significant, the initial investment may deter some industrial facilities from transitioning to renewable sources. However, financing options, incentives, and decreasing technology costs are helping to overcome this challenge.



19. What is a key benefit of integrating energy storage?

- a) Increases energy bills
- b) Limits renewable usage
- c) Decreases system reliability
- d) Balances energy supply

Correct Answer: d) Balances energy supply

Explanation: A key benefit of integrating energy storage systems is that they help balance energy supply and demand. By storing excess energy generated during low-demand periods, facilities can utilize that energy when demand is high, improving system reliability and efficiency. This capability is especially critical for accommodating intermittent renewable sources like solar and wind.

20. How does energy benchmarking support cost savings?

- a) Increases energy consumption
- b) Limits operational efficiency
- c) Ignores performance data
- d) Identifies improvement areas

Correct Answer: d) Identifies improvement areas

Explanation: Energy benchmarking supports cost savings by identifying areas of improvement in energy performance. By comparing energy usage against industry standards or similar facilities, organizations can pinpoint inefficiencies and implement targeted strategies to reduce energy consumption. This proactive approach leads to enhanced operational efficiency and significant financial savings over time.

21. What is the main challenge of integrating wind energy?

- a) Constant energy supply
- b) Unlimited resource availability
- c) Low initial costs
- d) Variability in production

Correct Answer: d) Variability in production

Explanation: The main challenge of integrating wind energy is the variability in production due to changing wind conditions. Unlike traditional energy sources, wind energy is intermittent, which can create challenges for grid stability and reliability. Managing this variability requires advanced forecasting and energy storage solutions to ensure a consistent power supply for industrial operations.



22. What is a benefit of energy-efficient HVAC systems?

- a) Higher operating costs
- b) Improved indoor air quality
- c) Increased maintenance needs
- d) More energy waste

Correct Answer: b) Improved indoor air quality

Explanation: Energy-efficient HVAC systems provide the benefit of improved indoor air quality by utilizing advanced filtration and ventilation technologies. These systems optimize temperature and humidity control, creating a healthier workspace for employees. Additionally, their efficient operation reduces energy consumption and operational costs, aligning with sustainability goals in industrial settings.

23. What is the role of energy management in sustainability?

- a) Enhance waste generation
- b) Increase resource depletion
- c) Limit renewable resources
- d) Promote responsible usage

Correct Answer: d) Promote responsible usage

Explanation: The role of energy management in sustainability is to promote responsible energy usage across industrial operations. By implementing strategies to reduce consumption, enhance efficiency, and integrate renewable sources, facilities can minimize their environmental impacts. This approach not only supports corporate social responsibility goals but also helps organizations comply with regulations and improve public perception.

24. How do renewable energy sources influence energy prices?

- a) Increase volatility
- b) Limit market growth
- c) Raise dependency
- d) Stabilize costs

Correct Answer: d) Stabilize costs

Explanation: Renewable energy sources, such as solar and wind, can help stabilize energy prices by diversifying the energy supply and reducing reliance on fossil fuels. As more renewable energy enters the market, it can lead to a decrease in overall energy costs, providing consumers with more predictable pricing and shielding them from price spikes associated with traditional fuels.



25. What is a significant advantage of smart grids?

- a) Limited communication
- b) Increased energy waste
- c) Higher operational risks
- d) Enhanced grid resilience

Correct Answer: d) Enhanced grid resilience

Explanation: A significant advantage of smart grids is enhanced grid resilience, allowing for better management of energy supply and demand fluctuations. By utilizing advanced technologies for monitoring and control, smart grids can quickly respond to outages, integrate distributed energy resources, and optimize energy flow, ultimately improving reliability and efficiency in industrial applications.



Subject - 1

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About the Creators:

Bobby Bedi:

Bobby Bedi, co-creator of the Journeyman 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 Journeyman 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 Journeyman 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 Journeyman 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 Journeyman 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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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 state 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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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 Journeyman Study Guide

Embark on a journey to excellence in your trade with the Journeyman Study Guide, an essential resource for aspiring tradespeople. This guide is meticulously crafted to provide you with the knowledge and skills required to succeed on the Journeyman exam. Whether you're a seasoned professional or new to the field, this guide offers valuable insights to enhance your understanding and boost your confidence.

What's Inside:

- **Detailed Overviews** of potential exam formats and key concepts.
- **Practical Tips** for effective study habits and exam strategies.
- **Practice Questions** to test your knowledge and sharpen your skills.

Tailored to Your Needs:

Our guide is specifically designed for a variety of trades across all Canadian provinces, ensuring you receive the most relevant and comprehensive information possible.

Testimonials:

"As an apprentice, the Journeyman Study Guide made complex topics manageable, boosting my confidence, income and career." - Emily Tran, Apprentice Carpenter

"Adapting to Canadian standards was really hard, but the guide bridged the gap between my previous experiences and Canadian requirements." - Ahmed Al-Sayed, Plumber, originally from Egypt

"As an instructor, I find the Journeyman Study Guide aligns well with the curriculum and significantly aids my students." - Derek Smith, Welding Instructor

A Companion, Not a Substitute:

Remember, the Journeyman Study Guide is a tool to complement your study regimen. For optimal results, use this guide in conjunction with the latest official materials issued by government authorities.

Are You Ready to Take the Next Step?

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

Join thousands of successful tradespeople who have advanced their careers with our guide.

Your journey to becoming Journeyman certified starts here!

Visit us at JourneymanStudyGuide.com today.



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