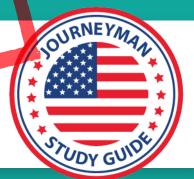
# JOURNEYMAN STUDY GUIDE FRAC TECHNICIAN (OILFIELD SERVICES)

YEAR

250 EXAM PREP QUESTIONS, WITH EXPLAINED ANSWERS



APPRENTICES I INSTRUCTORS I 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.

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- 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.
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- 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.

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- 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.
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Jessica Taylor, Apprentice Ironworker

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Carlos Ramirez, Electrician, originally from Mexico

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John Davis, Union Welding Instructor

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- 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.

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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.



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# 

# Year 2: Intermediate Frac Operations, Equipment Maintenance, and Well Performance

# Subject 3. Frac Pump Maintenance and Troubleshooting

# 1. What is a key maintenance task?

- a) Installing lights
- b) Replacing tires
- c) Painting equipment
- d) Fluid checks

**Correct Answer: d) Fluid checks** 

**Explanation:** Fluid checks are essential for the proper operation of frac pumps. Frac Technicians must regularly monitor the fluid levels and conditions to ensure optimal performance and avoid potential damage. Neglecting this task may result in inadequate lubrication and cooling, leading to premature wear or failure of critical components.

# 2. What does cavitation indicate?

- a) Low fluid levels
- b) High pressure
- c) Air bubbles forming
- d) Pump overheating

Correct Answer: c) Air bubbles forming

**Explanation:** Cavitation occurs when vapor bubbles form in a liquid and collapse, creating shock waves that can damage pump components. For Frac Technicians, recognizing early signs of cavitation, such as unusual noise or vibration, is crucial. Addressing cavitation promptly can prevent significant maintenance issues and ensure the pump operates efficiently.

# 3. What should be checked regularly?

- a) Battery health
- b) Fuel levels
- c) Lubrication levels
- d) Tire pressure

**Correct Answer: c) Lubrication levels** 

**Explanation:** Regularly checking lubrication levels is vital for maintaining the performance and longevity of frac pumps. Sufficient lubrication minimizes friction between moving parts, reducing wear and preventing overheating. Frac Technicians must ensure that all lubrication points are adequately serviced according to the manufacturer's recommendations to avoid potential breakdowns.



# 4. What causes pressure loss?

- a) Low fuel levels
- b) Excessive lubrication
- c) High ambient temperatures
- d) Blockages in the system

Correct Answer: d) Blockages in the system

**Explanation:** Pressure loss in frac pumps can be caused by blockages within the system, such as debris or sediment buildup. Frac Technicians should regularly inspect and clean filters, hoses, and valves to maintain optimal flow. Identifying and addressing blockages promptly helps to ensure efficient operation and prolongs the lifespan of the equipment.

# 5. What is a sign of wear?

- a) Unusual noises
- b) Regular temperature
- c) Steady fluid flow
- d) Consistent pressure readings

**Correct Answer: a) Unusual noises** 

**Explanation:** Unusual noises during operation can indicate wear or damage within a frac pump. Frac Technicians should be attentive to changes in sound, as they can signal issues such as bearing failure or cavitation. Early detection of these signs allows for timely maintenance and helps prevent catastrophic failures that could halt operations.

# 6. What maintenance protects pumps?

- a) Fuel refilling
- b) Weekly cleaning
- c) Regular inspections
- d) Equipment painting

**Correct Answer: c) Regular inspections** 

**Explanation:** Regular inspections are crucial for protecting frac pumps from unexpected failures. Frac Technicians should conduct systematic checks of all components, including seals, hoses, and bearings. By identifying potential issues early, they can perform necessary maintenance, which minimizes downtime and extends the life of the equipment.



# 7. What fluid is essential for lubrication?

- a) Water
- b) Engine oil
- c) Coolant
- d) Hydraulic fluid

Correct Answer: d) Hydraulic fluid

**Explanation:** Hydraulic fluid is essential for lubrication in frac pumps. It provides the necessary viscosity to reduce friction and wear between moving parts. Frac Technicians must ensure that hydraulic fluid levels are adequate and that the fluid is free of contaminants, as this directly impacts the performance and reliability of the pump.

# 8. What tool helps in troubleshooting?

- a) Pliers
- b) Wrench
- c) Multimeter
- d) Hammer

**Correct Answer: c) Multimeter** 

**Explanation:** A multimeter is an essential tool for troubleshooting frac pumps. It allows Frac Technicians to measure voltage, current, and resistance, helping them diagnose electrical issues in the pump's components. Using a multimeter can quickly pinpoint problems, reducing downtime and facilitating efficient maintenance practices.

# 9. When should lubrication be checked?

- a) Daily
- b) Annually
- c) Weekly
- d) Monthly

**Correct Answer: a) Daily** 

**Explanation:** Lubrication should be checked daily to ensure that frac pumps operate smoothly. Frac Technicians need to monitor lubrication levels consistently because insufficient lubrication can lead to overheating and wear. Daily checks help maintain optimal performance and prevent costly repairs due to equipment failure.



# 10. What is a common symptom of cavitation?

- a) Loud banging noise
- b) Low oil pressure
- c) Normal operation
- d) Steady pressure

Correct Answer: a) Loud banging noise

**Explanation:** A loud banging noise is a common symptom of cavitation in frac pumps. This noise is caused by the implosion of vapor bubbles, which creates shock waves that can damage pump components. Frac Technicians must identify this symptom early and take corrective action to prevent further damage to the pump.

# 11. What can cause pump overheating?

- a) Quality of oil
- b) Low fluid levels
- c) Ambient temperature
- d) High fluid levels

**Correct Answer: b) Low fluid levels** 

**Explanation:** Low fluid levels can lead to pump overheating, as there is insufficient lubrication to cool moving parts. Frac Technicians must regularly monitor fluid levels to prevent overheating, which can cause severe damage to the pump and result in costly repairs. Maintaining proper fluid levels is essential for safe and efficient operation.

# 12. What should be replaced regularly?

- a) Bolts
- b) Tires
- c) Paint
- d) Filters

**Correct Answer: d) Filters** 

**Explanation:** Regular replacement of filters is vital for keeping frac pumps in optimal condition. Filters remove contaminants from the fluid, preventing damage to internal components. Frac Technicians should follow the manufacturer's guidelines for filter replacement schedules to ensure that the pump operates efficiently and to minimize wear on the system.



# 13. What can indicate a leak?

- a) Steady operation
- b) Increased pressure
- c) Fluid pooling
- d) Normal sounds

Correct Answer: c) Fluid pooling

**Explanation:** Fluid pooling around a frac pump is a clear indicator of a leak. Frac Technicians need to investigate any signs of pooling to determine the source and take corrective action. Addressing leaks promptly prevents fluid loss and keeps the system operating efficiently, avoiding potential environmental hazards and costly repairs.

# 14. What is a critical part of pump maintenance?

- a) Daily cleaning
- b) Pressure testing
- c) Fuel checks
- d) Equipment painting

**Correct Answer: b) Pressure testing** 

**Explanation:** Pressure testing is a critical part of pump maintenance. It helps Frac Technicians assess the integrity of the pump and its components. Regular pressure tests can identify weaknesses or leaks in the system, allowing for timely repairs and ensuring the pump operates safely and efficiently under high-pressure conditions.

# 15. How often should fluid checks occur?

- a) Monthly
- b) Daily
- c) Once a year
- d) Weekly

**Correct Answer: b) Daily** 

**Explanation:** Fluid checks should occur daily to ensure optimal performance of frac pumps. Frac Technicians need to monitor not only the fluid level but also its condition. Daily checks help identify any issues, such as contamination or fluid degradation, before they escalate into major problems that could affect pump operation.



# 16. What is a sign of low lubrication?

- a) High temperature readings
- b) Normal fluid flow
- c) Steady pressure
- d) Quiet operation

# Correct Answer: a) High temperature readings

**Explanation:** High temperature readings can indicate low lubrication in frac pumps. Insufficient lubrication leads to increased friction and heat buildup, which can damage components. Frac Technicians must monitor temperature readings closely and address lubrication issues immediately to prevent costly breakdowns and maintain operational efficiency.

# 17. What can be affected by cavitation?

- a) Electrical systems
- b) Fuel consumption
- c) Pump efficiency
- d) Tire wear

# **Correct Answer: c) Pump efficiency**

**Explanation:** Cavitation can significantly affect pump efficiency by disrupting the smooth flow of fluid. It leads to energy loss and can cause damage to pump components. Frac Technicians need to monitor pump performance and take corrective actions to mitigate cavitation effects, ensuring the pump operates at peak efficiency.

# 18. Why is routine maintenance important?

- a) Prevents downtime
- b) Improves aesthetics
- c) Reduces operating costs
- d) Increases fuel consumption

# **Correct Answer: a) Prevents downtime**

**Explanation:** Routine maintenance is crucial for preventing downtime in frac pump operations. By regularly inspecting and servicing equipment, Frac Technicians can identify and resolve issues before they escalate into major problems. Preventative maintenance strategies ensure that the pump operates reliably, reducing the risk of interruptions in service and increasing productivity.



# 19. What does pressure loss indicate?

- a) Improved efficiency
- b) Potential leaks
- c) Perfect operation
- d) Enhanced performance

**Correct Answer: b) Potential leaks** 

**Explanation:** Pressure loss often indicates potential leaks within the frac pump system. Frac Technicians should investigate any drop in pressure to identify the source, as leaks can compromise system integrity and performance. Addressing pressure loss promptly helps maintain optimal operation and prevents further damage to the equipment.

# 20. What maintenance task involves cleaning?

- a) Electrical testing
- b) Filter replacement
- c) Lubrication checks
- d) Fluid analysis

**Correct Answer: b) Filter replacement** 

**Explanation:** Filter replacement involves cleaning the system by removing contaminants that could harm the frac pump. Frac Technicians should regularly replace filters to ensure unimpeded fluid flow and protect the pump from damage. Keeping filters clean is essential for maintaining the overall health of the hydraulic system.

# 21. What should be monitored for wear?

- a) Fluid color
- b) Equipment age
- c) Pump temperature
- d) Maintenance schedule

Correct Answer: c) Pump temperature

**Explanation:** Monitoring pump temperature is essential for detecting wear. Abnormal temperature increases can indicate excessive friction or inadequate lubrication, leading to premature failure. Frac Technicians should keep a close eye on temperature readings and take action if they deviate from the normal range, ensuring the pump operates efficiently.



# 22. What is essential for proper lubrication?

- a) High pressure
- b) Correct fluid type
- c) Frequent operation
- d) Clean environment

Correct Answer: b) Correct fluid type

**Explanation:** Using the correct fluid type is essential for proper lubrication in frac pumps. The right hydraulic fluid ensures optimal viscosity and performance, preventing wear and overheating. Frac Technicians must follow manufacturer specifications for fluid selection to maintain the pump's efficiency and reliability throughout its operation.

# 23. What does a high vibration level suggest?

- a) Potential damage
- b) Increased efficiency
- c) Low pressure
- d) Normal operation

Correct Answer: a) Potential damage

**Explanation:** High vibration levels in frac pumps suggest potential damage or misalignment within the system. Frac Technicians should monitor vibration levels closely, as excessive vibrations can lead to component failure over time. Addressing the source of high vibration early can prevent costly repairs and ensure smooth pump operation.

# 24. How often should inspections occur?

- a) Annually
- b) Monthly
- c) Weekly
- d) Daily

Correct Answer: d) Daily

**Explanation:** Inspections should occur daily to ensure that frac pumps are operating correctly. Frac Technicians need to identify any signs of wear, leaks, or operational issues promptly. Daily inspections help maintain equipment functionality, reduce the likelihood of unexpected breakdowns, and ensure safety in high-pressure environments.



# 25. What can excessive heat cause?

- a) Improved performance
- b) No effect
- c) Increased efficiency
- d) Component failure

# **Correct Answer: d) Component failure**

**Explanation:** Excessive heat can lead to component failure in frac pumps. High temperatures often indicate insufficient lubrication or excessive friction, which can damage critical parts. Frac Technicians must monitor heat levels and take corrective measures, such as ensuring proper lubrication, to prevent overheating and extend the lifespan of the equipment.





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- 25). A B C D

#### **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.



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