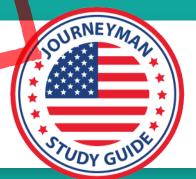
JOURNEYMAN STUDY GUIDE WELL SERVICING TECHNICIAN

YEAR

250 EXAM PREP QUESTIONS, WITH EXPLAINED ANSWERS



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JourneymanStudyGuide.com

UNITY CREST SOLUTIONS INC.

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Year 2: Intermediate Well Servicing Techniques

Subject 3: Pumps, Compressors, and Pressure Systems

- 1. What type of pump moves fluids mechanically?
- a) Piston pump
- b) Centrifugal pump
- c) Gear pump
- d) Diaphragm pump

Correct Answer: b) Centrifugal pump

Explanation: Centrifugal pumps are commonly used in well servicing to move fluids by converting rotational energy into hydraulic energy. They utilize a rotating impeller to increase the velocity of the fluid, which then exits through a discharge pipe. Understanding the different types of pumps is crucial for effective fluid management in well servicing.

- 2. What does PSI stand for in pressure systems?
- a) Performance scale indicator
- b) Pump service instruction
- c) pounds per sq-in
- d) Pressure standard index

Correct Answer: c) pounds per sq-in

Explanation: PSI stands for pounds per sq-in, which is a unit of pressure commonly used to measure the pressure of gases and liquids in various systems, including pressure systems in well servicing. It is essential for technicians to understand pressure measurements to ensure safe and efficient operations during well servicing activities.

- 3. Which pump type is best for viscous fluids?
- a) Screw pump
- b) Diaphragm pump
- c) Gear pump
- d) Centrifugal pump

Correct Answer: c) Gear pump

Explanation: Gear pumps are designed to handle viscous fluids effectively. They work by trapping fluid between rotating gears and moving it through the pump housing. This feature makes them particularly suitable for applications where thicker liquids, such as oil or heavy drilling mud, need to be transferred. Understanding pump selection is critical in well servicing operations.



4. What is the main purpose of compressors?

- a) Cool fluids down
- b) Increase fluid pressure
- c) Decrease fluid flow
- d) Measure fluid volume

Correct Answer: b) Increase fluid pressure

Explanation: Compressors are machines designed to increase the pressure of gases by reducing their volume. In well servicing, they are used to supply compressed air or gas for various applications, including powering pneumatic tools and equipment. Knowing how compressors function and their applications is essential for well servicing technicians.

5. Which component in a pump prevents backflow?

- a) Suction strainer
- b) Pressure gauge
- c) Flow meter
- d) Check valve

Correct Answer: d) Check valve

Explanation: A check valve is a crucial component in a pump system that allows fluid to flow in one direction only, thus preventing backflow. This is particularly important in well servicing to maintain pressure and ensure that fluids do not return to the source, which can lead to contamination and inefficiency in operations.

6. What is a common cause of pump cavitation?

- a) High discharge pressure
- b) Wrong pump size
- c) Excessive fluid viscosity
- d) Low fluid levels

Correct Answer: d) Low fluid levels

Explanation: Cavitation occurs when the pressure in a pump drops below the vapor pressure of the fluid, often due to low fluid levels in the suction line. This can lead to the formation of vapor bubbles, which can collapse and cause damage to the pump components. Recognizing the signs of cavitation is essential for maintaining effective pump operations in well servicing.



7. What does a pressure relief valve do?

- a) Increases pressure
- b) Prevents overpressure
- c) Measures pressure levels
- d) Reduces fluid temperature

Correct Answer: b) Prevents overpressure

Explanation: A pressure relief valve is designed to open and release excess pressure from a system when it exceeds a set limit. This mechanism is crucial for preventing equipment failure or explosions in pressure systems used in well servicing. Understanding how and when to use pressure relief valves helps ensure safety and integrity during operations.

8. Which type of compressor uses pistons?

- a) Screw compressor
- b) Rotary compressor
- c) Diaphragm compressor
- d) Reciprocating compressor

Correct Answer: d) Reciprocating compressor

Explanation: Reciprocating compressors utilize pistons driven by a crankshaft to compress gases. They are widely used in various applications, including well servicing, where high-pressure air or gas is required. Knowledge of compressor types and their functionalities is fundamental for well servicing technicians to optimize performance and efficiency.

9. How is pump efficiency typically measured?

- a) Flow rate
- b) Time taken
- c) Head pressure
- d) Power consumption

Correct Answer: d) Power consumption

Explanation: Pump efficiency is often measured by comparing the hydraulic power output to the mechanical power input, usually expressed in terms of power consumption. This measurement helps technicians assess how effectively a pump converts energy into fluid movement, enabling them to make informed decisions regarding maintenance and upgrades in well servicing operations.



10. What is the purpose of a strainer in a pump system?

- a) Measure flow rate
- b) Increase pressure
- c) Filter out debris
- d) Cool the fluid

Correct Answer: c) Filter out debris

Explanation: A strainer is used in pump systems to filter out solid particles and debris from the fluid before it enters the pump. This is crucial for protecting the pump components from damage and ensuring efficient operation. Well servicing technicians must regularly check and clean strainers to maintain optimal performance and prolong the lifespan of the pumping equipment.

11. Which pump type is self-priming?

- a) Centrifugal pump
- b) Gear pump
- c) Screw pump
- d) Diaphragm pump

Correct Answer: d) Diaphragm pump

Explanation: Diaphragm pumps are known for their self-priming capabilities, allowing them to draw liquid into the pump without the need for external priming devices. This feature makes them particularly useful in well servicing applications where quick and efficient fluid transfer is necessary. Understanding the advantages of self-priming pumps helps technicians optimize their operations.

12. What is the effect of high viscosity on pumps?

- a) Lower pressure
- b) No effect
- c) Faster flow
- d) Increased wear

Correct Answer: d) Increased wear

Explanation: High viscosity fluids can lead to increased wear and tear on pump components due to the additional energy required to move thicker liquids. This can result in reduced efficiency and a shorter lifespan for the pump. It's important for well servicing technicians to consider fluid viscosity when selecting and maintaining pumps to ensure reliable performance.



13. What type of compressor is typically used for air?

- a) Diaphragm compressor
- b) Screw compressor
- c) Gear compressor
- d) Reciprocating compressor

Correct Answer: d) Reciprocating compressor

Explanation: Reciprocating compressors are commonly used to compress air due to their efficiency and ability to provide high pressure. They work by utilizing pistons to compress the air within a cylinder, making them suitable for various applications in well servicing where compressed air is needed for tools and equipment.

14. What measurement indicates pump output?

- a) Temperature
- b) Flow rate
- c) Head height
- d) Vacuum level

Correct Answer: b) Flow rate

Explanation: Flow rate is the measurement that indicates the volume of fluid being pumped over a specified period, typically expressed in GPM (GPM) or liters per minute (LPM). Understanding flow rate is essential for well servicing technicians to ensure that pumps are operating within their designed capacity and meeting operational requirements.

15. What is one common maintenance task for pumps?

- a) Checking alignment
- b) Replacing gears
- c) Adjusting pressure
- d) Cleaning filters

Correct Answer: d) Cleaning filters

Explanation: Regularly cleaning filters is a critical maintenance task for pumps to ensure they operate efficiently and prevent debris from entering the system. Clogged filters can lead to reduced flow rates and increased wear on pump components. Well servicing technicians should incorporate filter cleaning into their maintenance schedules to prolong pump life and maintain performance.



16. What does a vacuum gauge measure?

- a) Fluid density
- b) Fluid temperature
- c) Atmospheric pressure
- d) Negative pressure

Correct Answer: d) Negative pressure

Explanation: A vacuum gauge measures negative pressure within a system, indicating how much lower the pressure is compared to atmospheric pressure. This measurement is important in well servicing applications such as ensuring proper suction for pumps and identifying leaks in pressure systems. Understanding vacuum levels is essential for maintaining system integrity.

17. What is the primary function of a pressure gauge?

- a) Indicate pressure levels
- b) Monitor fluid density
- c) Control temperature
- d) Measure flow rate

Correct Answer: a) Indicate pressure levels

Explanation: A pressure gauge is used to indicate the pressure levels within a system, allowing technicians to monitor and ensure that operations remain within safe and effective limits. This is especially important in well servicing where pressure management is critical for safety and efficiency. Technicians must be skilled in reading and interpreting pressure gauge data.

18. What can cause a compressor to overheat?

- a) Excessive airflow
- b) Low oil levels
- c) High humidity
- d) Low pressure

Correct Answer: b) Low oil levels

Explanation: Low oil levels in a compressor can lead to overheating, as oil is essential for lubrication and cooling of moving parts. Insufficient lubrication increases friction and heat generation, potentially damaging the compressor. Well servicing technicians must routinely check oil levels and maintain proper lubrication to prevent overheating and ensure reliable compressor operation.



19. What is a common sign of pump failure?

- a) Increased noise
- b) Consistent flow
- c) Higher efficiency
- d) Steady pressure

Correct Answer: a) Increased noise

Explanation: Increased noise from a pump can be a common indicator of potential failure or mechanical issues such as cavitation or worn bearings. It is important for well servicing technicians to monitor pump sounds during operation, as unusual noises often signal the need for maintenance or inspection to prevent complete failure and costly downtime.

20. Which pump type is used for high pressures?

- a) Gear pump
- b) Screw pump
- c) Centrifugal pump
- d) Diaphragm pump

Correct Answer: b) Screw pump

Explanation: Screw pumps are designed to handle high-pressure applications efficiently. They utilize a rotating screw mechanism to move fluids, making them suitable for transferring viscous liquids and operating under high-pressure conditions commonly found in well servicing. Understanding pump capabilities helps technicians select the right equipment for their specific needs.

21. What is the purpose of a hydraulic accumulator?

- a) Filter debris
- b) Cool fluids
- c) Store energy
- d) Measure pressure

Correct Answer: c) Store energy

Explanation: A hydraulic accumulator is used to store energy in the form of pressurized fluid, allowing for improved efficiency and response in hydraulic systems. It helps maintain pressure and can provide a quick burst of fluid when needed in well servicing applications. Technicians must understand the role of accumulators to optimize hydraulic system performance.



22. What is the main function of a blow-off valve?

- a) Release excess pressure
- b) Measure temperature
- c) Control flow
- d) Increase pressure

Correct Answer: a) Release excess pressure

Explanation: A blow-off valve is designed to automatically release excess pressure from a system to prevent overpressure situations that can lead to equipment damage or failure. It is an essential safety feature in pressure systems used in well servicing, ensuring that operations remain safe and within specified limits. Technicians must be familiar with the operation of blow-off valves.

23. What is a common method for troubleshooting pumps?

- a) Pressure testing
- b) Visual inspection
- c) Sound assessment
- d) Fluid analysis

Correct Answer: b) Visual inspection

Explanation: A visual inspection is a common and effective method for troubleshooting pumps. Technicians look for signs of leaks, corrosion, or mechanical wear that could indicate problems. This initial assessment is crucial in identifying issues that may affect pump performance and is often combined with other diagnostic methods for a comprehensive evaluation.

24. Which factor affects compressor performance?

- a) Pump size
- b) Air temperature
- c) Filter type
- d) Fluid density

Correct Answer: b) Air temperature

Explanation: Air temperature significantly affects compressor performance. Higher temperatures can reduce the efficiency of the compression process, leading to increased energy consumption and potential overheating. Well servicing technicians must consider ambient temperatures and their impact on compressor operations to ensure optimal performance and longevity of the equipment.



25. What should be checked for pump alignment?

- a) Coupling integrity
- b) Viscosity levels
- c) Fluid temperature
- d) Pressure settings

Correct Answer: a) Coupling integrity

Explanation: Checking coupling integrity is essential for pump alignment, as misalignment can lead to excessive wear, vibration, and premature failure of pump components. Proper alignment ensures efficient power transmission and reduces the risk of mechanical failure. Well servicing technicians should regularly inspect and adjust pump alignments to maintain system reliability and efficiency.





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- 6). A B C D
- 11). A B C D

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- 7). (A) (B) (C) (D)
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- 19). (A) (B) (C) (D)
- 24). A B C D
- 20). (A) (B) (C) (D)
- 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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