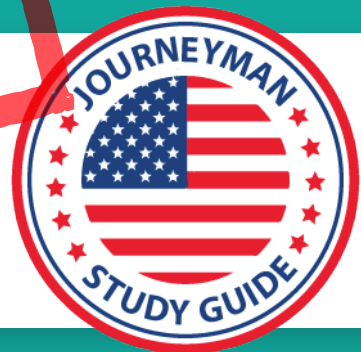


JOURNEYMAN STUDY GUIDE NATURAL GAS COMPRESSOR OPERATOR

YEAR 2

SAMPLE
250 EXAM PREP QUESTIONS,
WITH EXPLAINED ANSWERS



APPRENTICES | INSTRUCTORS | INSTITUTES

JourneymanStudyGuide.com

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QUESTIONS



Year 2: Intermediate Gas Compression Operations

Subject 3. Gas Properties and How They Affect Compression

1. What affects gas compression performance?

- a) All of the above
- b) Temperature increase
- c) Gas composition change
- d) Pressure decrease

Correct Answer: a) All of the above

Explanation: Natural Gas Compression performance is influenced by temperature, pressure, and gas composition. An increase in temperature can lead to lower density, which affects the efficiency of the compression process. Similarly, changes in pressure and variations in gas composition can significantly impact the performance and efficiency of compressors used in natural gas applications.

2. How does temperature impact gas density?

- a) Only affects liquids
- b) Increases density
- c) No effect
- d) Decreases density

Correct Answer: d) Decreases density

Explanation: As temperature increases, the density of natural gas decreases. This occurs because gas molecules move faster and spread apart when heated, resulting in fewer molecules per unit volume. Lower density can lead to challenges in compression, as compressors need to handle varying densities for efficient operation.

3. What happens to gas pressure during compression?

- a) Only affects liquids
- b) Decreases naturally
- c) Remains unchanged
- d) Increases during process

Correct Answer: d) Increases during process

Explanation: During the natural gas compression process, the pressure of the gas is intentionally increased to reduce its volume and make it easier to transport. Compressors work by taking in gas at a certain pressure and then compressing it, leading to an increase in pressure, which is essential for efficient storage and transportation.



4. What role does gas composition play?

- a) No significant role
- b) Only affects pressure
- c) Only affects temperature
- d) Impacts efficiency

Correct Answer: d) Impacts efficiency

Explanation: The composition of natural gas can significantly influence the efficiency of compression. Different components, such as methane, ethane, and impurities, have varying physical properties that affect how the gas behaves under compression. Understanding the gas composition helps in optimizing compressor performance and ensuring safety during operations.

5. How does high temperature affect compressors?

- a) Only affects cooling
- b) No impact
- c) Increases efficiency
- d) Reduces efficiency

Correct Answer: d) Reduces efficiency

Explanation: High temperatures can reduce the efficiency of natural gas compressors. When the gas is hot, it is less dense, which means that the compressor must work harder to achieve the desired pressure levels. This can lead to increased energy consumption and potential overheating of the compressor components, ultimately affecting operational efficiency.

6. What is the effect of low pressure on gas?

- a) Only affects liquids
- b) No significant effect
- c) Causes expansion
- d) Increases density

Correct Answer: c) Causes expansion

Explanation: Low pressure conditions allow natural gas to expand, increasing its volume. When gas is not compressed adequately, it may not flow efficiently through pipelines or storage facilities. Understanding how low pressure influences gas behavior is crucial for optimizing systems that transport and store natural gas.



7. Which gas composition is most common?

- a) Nitrogen
- b) Methane
- c) Oxygen
- d) Carbon dioxide

Correct Answer: b) Methane

Explanation: Methane is the primary component of natural gas, making up about 70-90% of its composition. Its properties significantly impact the behavior and performance of natural gas compressors. Understanding the characteristics of methane helps technicians optimize compression processes, ensuring safe and efficient transportation of natural gas.

8. How does reduced temperature affect compression?

- a) No impact
- b) Decreases flow efficiency
- c) Only affects liquids
- d) Increases gas flow

Correct Answer: b) Decreases flow efficiency

Explanation: Reduced temperature can decrease the efficiency of gas flow during compression. Cold gas is denser, requiring more energy to compress effectively. This can lead to lower throughput and increased operational costs. Therefore, managing temperature is essential for optimizing natural gas compression operations.

9. What is a common gas impurity?

- a) Pure methane
- b) Helium
- c) Water vapor
- d) Oxygen

Correct Answer: c) Water vapor

Explanation: Water vapor is a common impurity found in natural gas. Its presence can affect compressor performance by causing corrosion and reducing efficiency. Removing water vapor through dehydration processes is essential for maintaining the integrity of compressors and ensuring optimal performance in natural gas compression systems.



10. How does pressure affect gas behavior?

- a) It stays the same
- b) It expands
- c) It compresses more
- d) Only affects liquids

Correct Answer: c) It compresses more

Explanation: Increasing pressure on natural gas causes it to compress more, reducing its volume. This behavior is fundamental to the principles of gas dynamics and plays a crucial role in the design and operation of compressors. Understanding how pressure influences gas behavior is vital for efficient natural gas compression.

11. What is the ideal gas law?

- a) $F=ma$
- b) $W=Fd$
- c) $PV=nRT$
- d) $E=mc^2$

Correct Answer: c) $PV=nRT$

Explanation: The ideal gas law is expressed as $PV=nRT$, where P is pressure, V is volume, n is the number of moles, R is the gas constant, and T is temperature. This law helps predict how changes in pressure, volume, and temperature affect gas behavior, which is crucial for understanding natural gas compression processes.

12. What happens to gas as pressure increases?

- a) No change
- b) Only affects liquids
- c) Volume increases
- d) Volume decreases

Correct Answer: d) Volume decreases

Explanation: According to Boyle's Law, as the pressure of a gas increases, its volume decreases, provided the temperature remains constant. This principle is essential for natural gas compression, as compressors work to reduce the volume of gas for storage and transportation, making it more manageable and efficient.



13. How does methane compare to propane?

- a) More energy
- b) Less energy
- c) No difference
- d) Less dense

Correct Answer: d) Less dense

Explanation: Methane is less dense than propane, which affects its behavior during compression. Lower density means that methane requires less energy to compress compared to heavier hydrocarbons like propane. Understanding these differences is important for optimizing compression processes in natural gas systems.

14. What is the main purpose of a compressor?

- a) Store gas
- b) Decrease temperature
- c) Remove impurities
- d) Increase pressure

Correct Answer: d) Increase pressure

Explanation: The main purpose of a gas compressor is to increase the pressure of natural gas, making it suitable for transport and storage. By compressing the gas, its volume is reduced, allowing for efficient movement through pipelines and storage facilities, which is essential for the natural gas industry.

15. How does gas composition affect combustion?

- a) Increases emissions
- b) Only affects liquids
- c) Changes efficiency
- d) No effect

Correct Answer: c) Changes efficiency

Explanation: The composition of natural gas plays a significant role in combustion efficiency. Different components burn at varying rates and temperatures, impacting how effectively energy is released during combustion. Understanding gas composition helps optimize combustion processes in power generation and heating applications, enhancing overall efficiency.



16. What is a common use of compressed natural gas?

- a) Heating
- b) All of the above
- c) Electricity generation
- d) Vehicle fuel

Correct Answer: b) All of the above

Explanation: Compressed natural gas (CNG) is commonly used for various applications, including electricity generation, heating, and as a vehicle fuel. Its versatility and relatively cleaner combustion compared to other fossil fuels make it an attractive choice for reducing emissions and promoting energy efficiency in multiple sectors.

17. How does high pressure affect compressor parts?

- a) No impact
- b) Increases wear
- c) Decreases efficiency
- d) Only affects liquids

Correct Answer: b) Increases wear

Explanation: High pressure in compressors can lead to increased wear and tear on the mechanical components. The stress from high pressures can cause fatigue and failure in parts like seals and bearings. Understanding this relationship helps maintain compressors and extend their operational lifespan through regular inspections and maintenance.

18. What is the effect of gas impurities?

- a) Enhances performance
- b) Only affects liquids
- c) Reduces efficiency
- d) No effect

Correct Answer: c) Reduces efficiency

Explanation: Gas impurities, such as water vapor and carbon dioxide, can reduce the efficiency of natural gas compressors. These impurities can cause corrosion, blockages, and other operational issues that hinder performance. It is crucial to manage and remove impurities to maintain optimal efficiency and reliability in compression systems.



19. How does altitude affect gas compression?

- a) No effect
- b) Increases efficiency
- c) Reduces density
- d) Only affects liquids

Correct Answer: c) Reduces density

Explanation: At higher altitudes, the atmospheric pressure is lower, which reduces the density of natural gas. This can affect the performance of compressors, as they may need to work harder to achieve the desired pressure levels. Understanding altitude effects is essential for optimizing natural gas compression in varying geographical locations.

20. What is a common compressor type?

- a) Rotary
- b) All of the above
- c) Centrifugal
- d) Reciprocating

Correct Answer: b) All of the above

Explanation: Common types of compressors used in natural gas compression include centrifugal, rotary, and reciprocating compressors. Each type has its advantages and applications based on factors such as pressure requirements, flow rates, and efficiency. Understanding these types helps technicians choose the right compressor for specific operational needs.

21. How does compressor efficiency relate to cost?

- a) No relationship
- b) Higher efficiency, lower cost
- c) Higher cost, lower efficiency
- d) Only affects liquids

Correct Answer: b) Higher efficiency, lower cost

Explanation: Higher compressor efficiency generally leads to lower operational costs. Efficient compressors consume less energy, resulting in reduced utility bills and maintenance costs. Optimizing compressor efficiency is crucial for businesses in the natural gas industry to improve profitability while minimizing environmental impacts.



22. What is the primary factor in gas compression?

- a) All of the above
- b) Pressure
- c) Temperature
- d) Composition

Correct Answer: a) All of the above

Explanation: The primary factors affecting gas compression are temperature, pressure, and gas composition. Each of these factors interacts with the others, influencing how effectively gas can be compressed. Understanding these relationships is essential for engineers and technicians working in the natural gas compression trade to ensure optimal performance.

23. How does gas expansion impact pipelines?

- a) Causes ruptures
- b) Only affects liquids
- c) Increases pressure
- d) No effect

Correct Answer: a) Causes ruptures

Explanation: Gas expansion can lead to pressure surges in pipelines, which may cause ruptures or leaks. Managing gas expansion is crucial in the natural gas industry to maintain pipeline integrity and prevent accidents. Engineers must consider expansion effects when designing and operating gas transportation systems to ensure safety and reliability.

24. How does gas cooling help compressors?

- a) Reduces efficiency
- b) Increases density
- c) Only affects liquids
- d) No impact

Correct Answer: b) Increases density

Explanation: Cooling gas before compression increases its density, making it easier to compress. By increasing density, compressors can operate more efficiently, reducing energy consumption and improving overall performance. Implementing cooling systems is an essential practice in optimizing natural gas compression processes to enhance operational efficiency.



25. What is the impact of high humidity on gas?

- a) Decreases efficiency
- b) Increases efficiency
- c) Only affects liquids
- d) No effect

Correct Answer: a) Decreases efficiency

Explanation: High humidity levels can lead to increased water vapor in natural gas, negatively affecting compressor efficiency. Water vapor can cause corrosion, reduce flow rates, and create operational challenges. Managing humidity and ensuring gas is dry before compression are critical for maintaining optimal performance in natural gas compression systems.



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.



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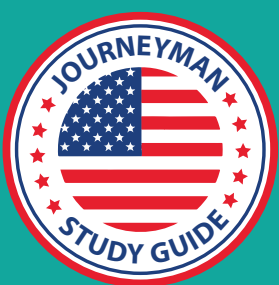
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