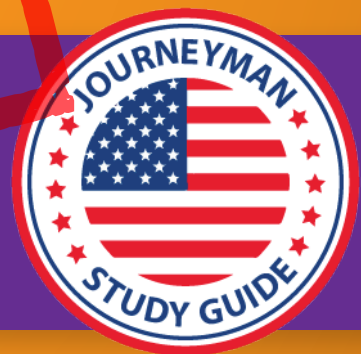


JOURNEYMAN STUDY GUIDE ROBOTICS MAINTENANCE TECHNICIAN YEAR 3

**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.

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SNOW STUDS QUEST



Year 3: Advanced Robotics Maintenance and System Optimization

Subject 3. Hydraulics and Pneumatics in Robotics

1. What powers hydraulic actuators in robotics?

- a) Hydraulic fluid
- b) Electric current
- c) Air pressure
- d) Mechanical force

Correct Answer: a) Hydraulic fluid

Explanation: Hydraulic actuators operate using pressurized hydraulic fluid which is essential for converting energy stored in the fluid into mechanical motion. This pressurization facilitates movement and force application in robotic systems, making hydraulic actuators vital for tasks requiring significant power and precision.

2. What is the primary function of pneumatic cylinders?

- a) Measure pressure
- b) Store energy
- c) Control fluid flow
- d) Generate linear motion

Correct Answer: d) Generate linear motion

Explanation: Pneumatic cylinders convert compressed air energy into linear motion, enabling robotic systems to perform various tasks such as lifting, pushing, or pulling objects. Their ability to provide rapid actuation makes them ideal for applications requiring speed and efficiency in robotic operations.

3. What fluid is commonly used in hydraulic systems?

- a) Gel
- b) Water
- c) Air
- d) Oil

Correct Answer: d) Oil

Explanation: Oil is commonly used in hydraulic systems due to its superior viscosity, lubrication properties, and ability to transmit power effectively. It ensures efficient operation of hydraulic actuators by minimizing friction and wear, ultimately enhancing the reliability and lifespan of robotic components.



4. Which component controls fluid flow in hydraulics?

- a) Filter
- b) Valve
- c) Cylinder
- d) Pump

Correct Answer: b) Valve

Explanation: Valves are critical components in hydraulic systems, as they regulate the flow and pressure of hydraulic fluid to various actuators. By controlling fluid flow, valves determine the speed and direction of the actuators, thus playing a vital role in the overall functionality of robotic systems.

5. What maintenance technique helps prevent leaks?

- a) Lubricating parts
- b) Replacing seals
- c) Cleaning filters
- d) Tightening fittings

Correct Answer: b) Replacing seals

Explanation: Regularly replacing seals is crucial for preventing fluid leaks in hydraulic and pneumatic systems. Worn or damaged seals can lead to pressure loss and system failure, negatively impacting the performance of robotic systems. Ensuring proper sealing contributes to the longevity and efficiency of these fluid power systems.

6. What indicates low hydraulic fluid levels?

- a) Vibration
- b) Warning light
- c) Overheating
- d) Noise

Correct Answer: b) Warning light

Explanation: A warning light typically indicates low hydraulic fluid levels, alerting technicians to check the system. Low fluid levels can cause inadequate lubrication and cooling, resulting in potential damage to hydraulic components. Regular monitoring and maintenance of fluid levels are essential for optimal system performance.



7. How should pneumatic systems be stored?

- a) Exposed to sunlight
- b) Outdoors
- c) In damp areas
- d) In dry conditions

Correct Answer: d) In dry conditions

Explanation: Pneumatic systems should be stored in dry conditions to prevent moisture accumulation, which can lead to corrosion and malfunction of components. Proper storage practices extend the lifespan of pneumatic equipment and ensure reliable performance when put back into operation.

8. What is the purpose of a hydraulic pump?

- a) Filter fluid
- b) Measure flow
- c) Generate pressure
- d) Store energy

Correct Answer: c) Generate pressure

Explanation: A hydraulic pump's primary purpose is to generate pressure by converting mechanical energy into hydraulic energy. This pressurized fluid is essential for powering hydraulic actuators, enabling robotic systems to perform work efficiently. Understanding pump functionality is critical for effective maintenance and troubleshooting in hydraulic systems.

9. What is a common cause of pneumatic system failure?

- a) Excess lubrication
- b) High temperature
- c) Dirty filters
- d) Low pressure

Correct Answer: c) Dirty filters

Explanation: Dirty filters can obstruct airflow in pneumatic systems, leading to inadequate pressure and potential system failure. Regular maintenance, including cleaning or replacing filters, is essential to ensure unobstructed airflow and optimal performance of pneumatic components in robotic applications.



10. What should be checked during hydraulic system maintenance?

- a) Fluid color
- b) Only seals
- c) System noise
- d) Ambient temperature

Correct Answer: a) Fluid color

Explanation: Checking the fluid color during hydraulic system maintenance is crucial, as changes in color can indicate contamination or degradation of the hydraulic fluid. Such issues can affect the performance and longevity of the system, highlighting the importance of regular fluid analysis as part of maintenance protocols.

11. What type of actuator uses compressed air?

- a) Hydraulic actuator
- b) Electric actuator
- c) Mechanical actuator
- d) Pneumatic actuator

Correct Answer: d) Pneumatic actuator

Explanation: Pneumatic actuators utilize compressed air to produce motion, typically in a linear direction. This type of actuator is widely used in robotics due to its fast response times and simplicity, making it ideal for various applications that require quick and efficient movement.

12. Which part is crucial for regulating hydraulic pressure?

- a) Actuator
- b) Accumulator
- c) Reservoir
- d) Filter

Correct Answer: b) Accumulator

Explanation: An accumulator is crucial for regulating hydraulic pressure, as it stores energy in the form of pressurized fluid and releases it when needed. This function helps maintain consistent pressure levels in the hydraulic system, ensuring reliable operation of hydraulic actuators and overall system performance.



13. What maintenance step prevents pneumatic leaks?

- a) Inspecting hoses
- b) Cleaning valves
- c) Tightening bolts
- d) Greasing actuators

Correct Answer: a) Inspecting hoses

Explanation: Inspecting hoses is a vital maintenance step to prevent pneumatic leaks. Damaged or worn hoses can lead to air loss, reducing the efficiency of the pneumatic system. Regular inspections ensure the integrity of hoses, promoting reliable operation and prolonging the lifespan of pneumatic components.

14. What does a hydraulic filter do?

- a) Stores fluid
- b) Removes contaminants
- c) Increases pressure
- d) Measures temperature

Correct Answer: b) Removes contaminants

Explanation: A hydraulic filter's primary function is to remove contaminants from the hydraulic fluid, ensuring clean fluid circulates through the system. This is essential for preventing wear and damage to hydraulic components, maintaining system efficiency, and extending the life of the hydraulic system.

15. Which tool is essential for checking hydraulic pressure?

- a) Multimeter
- b) Pressure gauge
- c) Torque wrench
- d) Screwdriver

Correct Answer: b) Pressure gauge

Explanation: A pressure gauge is essential for checking hydraulic pressure, allowing technicians to monitor system performance and identify potential issues. Accurate pressure readings are vital for ensuring that hydraulic systems operate within safe and efficient parameters, which is crucial for robotic functionality.



16. What does a pneumatic actuator convert?

- a) Hydraulic fluid
- b) Air pressure
- c) Mechanical energy
- d) Electrical energy

Correct Answer: b) Air pressure

Explanation: A pneumatic actuator converts air pressure into mechanical motion. By utilizing compressed air, it efficiently provides linear or rotary motion in robotic systems, making it ideal for applications that require rapid actuation and response, thus enhancing overall system performance.

17. What maintenance activity ensures hydraulic fluid quality?

- a) Sealing joints
- b) Pump calibration
- c) Valving
- d) Fluid replacement

Correct Answer: d) Fluid replacement

Explanation: Regular fluid replacement is essential to ensure hydraulic fluid quality. Over time, hydraulic fluids can become contaminated or degrade, leading to reduced performance and potential system failures. Maintaining fluid quality through timely replacement is crucial for the reliability of hydraulic systems in robotics.

18. Which component absorbs shock in hydraulic systems?

- a) Pump
- b) Filter
- c) Hose
- d) Accumulator

Correct Answer: d) Accumulator

Explanation: An accumulator absorbs shock in hydraulic systems by storing excess hydraulic fluid under pressure. This capability helps smooth out pressure fluctuations during operation, protecting other components from potential damage and ensuring consistent and reliable performance of hydraulic actuators in robotic applications.



19. What effect does temperature have on hydraulic fluid?

- a) Prevents contamination
- b) Decreases viscosity
- c) Enhances lubrication
- d) Increases density

Correct Answer: b) Decreases viscosity

Explanation: Increased temperature decreases the viscosity of hydraulic fluid, which can lead to reduced lubrication and efficiency in hydraulic systems. Maintaining optimal operating temperatures is crucial for ensuring the proper functioning of hydraulic actuators and preventing premature wear or failure of the system.

20. Why is it important to lubricate pneumatic components?

- a) To enhance performance
- b) To save energy
- c) To prevent rust
- d) To reduce noise

Correct Answer: a) To enhance performance

Explanation: Lubricating pneumatic components is essential for enhancing performance by reducing friction and wear. Proper lubrication ensures smooth operation of actuators and valves, leading to improved efficiency and reliability in pneumatic systems. Regular lubrication checks are a vital part of maintenance for optimal system functioning.

21. What is the role of a pressure regulator?

- a) Filter fluid
- b) Maintain pressure
- c) Increase pressure
- d) Reduce flow

Correct Answer: b) Maintain pressure

Explanation: A pressure regulator's primary role is to maintain consistent pressure within a hydraulic or pneumatic system, ensuring that components operate within their specified limits. This regulation is crucial for the effective performance of actuators and overall system reliability, preventing damage from pressure fluctuations.



22. What maintenance task is critical for hydraulic hoses?

- a) Cleaning
- b) Replacing filters
- c) Painting
- d) Pressure testing

Correct Answer: d) Pressure testing

Explanation: Pressure testing hydraulic hoses is a critical maintenance task to ensure they can withstand operational pressures without leaking or bursting. Regular pressure testing helps identify potential weaknesses or failures in hoses, promoting safety and reliability in hydraulic systems used in robotics.

23. Which fluid is used for pneumatic systems?

- a) Compressed air
- b) Hydraulic oil
- c) Oil
- d) Water

Correct Answer: a) Compressed air

Explanation: Compressed air is the fluid used in pneumatic systems to provide power for motion and operation. This versatile medium allows for quick and efficient actuation of pneumatic cylinders and other components, making it a popular choice in various robotic applications due to its availability and ease of use.

24. What is the primary purpose of hydraulic fluid?

- a) Transmit power
- b) Generate motion
- c) Cool the system
- d) Lubricate parts

Correct Answer: a) Transmit power

Explanation: The primary purpose of hydraulic fluid is to transmit power within hydraulic systems. By transferring energy from the pump to the actuators, hydraulic fluid allows for the generation of motion and force in robotic applications, making it a crucial component in the functionality of hydraulic systems.



25. How often should pneumatic systems be maintained?

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

Correct Answer: a) Regularly

Explanation: Pneumatic systems should be maintained regularly to ensure optimal performance and reliability. Frequent checks on components, such as hoses, filters, and actuators, help identify wear and potential issues early on, ultimately extending the system's lifespan and preventing unexpected downtime in robotic operations.



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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