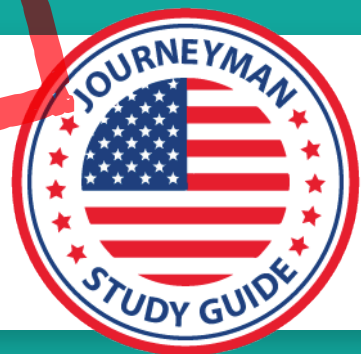


JOURNEYMAN STUDY GUIDE ELECTRICIAN INDUSTRIAL YEAR 2

SAMPLE
250 EXAM PREP QUESTIONS,
WITH EXPLAINED ANSWERS



APPRENTICES | INSTRUCTORS | INSTITUTES

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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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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.
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— 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

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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.
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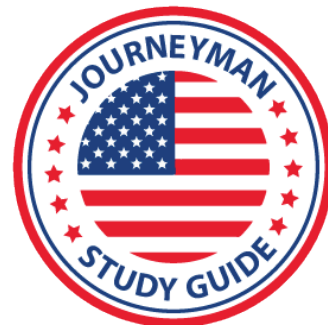
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SNOW STUDS QUEST



Year 2: Power Systems and Instrumentation

Subject 3. Basic Instrumentation and Process Control *(Introduced Earlier)*

1. What device measures temperature in processes?

- a) Pressure gauge
- b) Thermocouple
- c) Voltage regulator
- d) Flow meter

Correct Answer: b) Thermocouple

Explanation: A thermocouple is a sensor that measures temperature by generating a voltage based on the temperature difference between two junctions. It is commonly used in industrial processes due to its wide temperature range, durability, and quick response time, making it essential for accurate temperature monitoring and control.

2. Which instrument measures fluid pressure?

- a) Flow switch
- b) Thermometer
- c) Pressure transmitter
- d) Level sensor

Correct Answer: c) Pressure transmitter

Explanation: A pressure transmitter is an essential instrument in industrial systems that converts the physical pressure of a fluid into an electrical signal. This allows for real-time monitoring and control of pressure in various processes. It is widely used in applications such as hydraulic systems, gas pipelines, and chemical processing.

3. What is the primary function of a flow meter?

- a) Measure temperature
- b) Measure fluid flow
- c) Measure electrical current
- d) Measure resistance

Correct Answer: b) Measure fluid flow

Explanation: A flow meter is a device used to measure the flow rate of liquids or gases in industrial applications. It can provide valuable information for process control, allowing operators to maintain desired flow rates, ensure efficient operation, and prevent potential issues such as overflows or blockages.



4. Which device converts measurements to signals?

- a) Sensor
- b) Controller
- c) Transmitter
- d) Actuator

Correct Answer: c) Transmitter

Explanation: A transmitter is a device that takes the raw input from a sensor and converts it into a standardized output signal, typically in the form of a 4-20 mA current loop or digital signal. This allows for easier transmission of data to control systems, enhancing the monitoring and management of industrial processes.

5. What is calibration in instrumentation?

- a) Installing sensors
- b) Measuring temperatures
- c) Adjusting measurements
- d) Maintaining equipment

Correct Answer: c) Adjusting measurements

Explanation: Calibration is the process of adjusting the output of an instrument or sensor to ensure its accuracy and reliability. This involves comparing the instrument's readings with known standards and making necessary adjustments. Proper calibration is crucial for maintaining the integrity of measurements in industrial processes, ensuring optimal performance and safety.

6. What does PID stand for in control systems?

- a) Primary, Intermediate, Distant
- b) Position, Input, Demand
- c) Proportional, Integral, Derivative
- d) Pressure, Inlet, Discharge

Correct Answer: c) Proportional, Integral, Derivative

Explanation: PID stands for Proportional, Integral, and Derivative, which are the three components of a PID controller used in process control. This control strategy helps maintain a desired setpoint by adjusting the control output based on the error between the setpoint and the measured process variable, thus enhancing system stability and performance.



7. Which sensor detects liquid levels?

- a) Thermocouple
- b) Flow meter
- c) Pressure gauge
- d) Level sensor

Correct Answer: d) Level sensor

Explanation: A level sensor is specifically designed to detect the level of liquids within a container or environment. It can be based on various technologies, such as ultrasonic, capacitive, or float-based systems, and is crucial for applications like tank level monitoring, ensuring safe operations and preventing overflows in industrial processes.

8. What type of control loop maintains temperature?

- a) Closed loop
- b) Feedforward loop
- c) Open loop
- d) Feedback loop

Correct Answer: a) Closed loop

Explanation: A closed-loop control system continuously monitors the output of a process and adjusts the input based on feedback. In the context of temperature control, this means that the system measures the actual temperature and compares it to the desired setpoint, making real-time adjustments to maintain the target temperature effectively.

9. What is the purpose of a control valve?

- a) Control level
- b) Control temperature
- c) Control fluid flow
- d) Control pressure

Correct Answer: c) Control fluid flow

Explanation: A control valve regulates the flow of fluids in a piping system by varying the size of the flow passage as directed by a control signal. This allows for precise control over flow rates, which is essential in many industrial processes to maintain desired conditions, achieve efficiency, and ensure safety.



10. What is a thermistor used for?

- a) Measure flow
- b) Measure level
- c) Measure temperature
- d) Measure pressure

Correct Answer: c) Measure temperature

Explanation: A thermistor is a type of temperature sensor that changes its resistance with temperature variations. It is highly sensitive and provides accurate temperature readings over a limited range, making it suitable for applications such as HVAC systems, medical devices, and industrial processes where precise temperature control is essential.

11. What principle do pressure sensors use?

- a) Capacitance change
- b) Optical change
- c) Resistance change
- d) Piezoelectric effect

Correct Answer: d) Piezoelectric effect

Explanation: Pressure sensors often utilize the piezoelectric effect, where certain materials generate an electrical charge in response to applied pressure. This property allows for the accurate measurement of pressure changes within a system, facilitating proper monitoring and control in various industrial applications like hydraulics and pneumatic systems.

12. Which device provides feedback in control systems?

- a) Controller
- b) Sensor
- c) Actuator
- d) Transmitter

Correct Answer: b) Sensor

Explanation: In a control system, the sensor plays a critical role by measuring a specific process variable (like temperature, pressure, or flow) and providing feedback to the controller. This information allows the controller to make necessary adjustments to the actuator, ensuring that the process remains within desired parameters and operates efficiently.



13. What is the role of an actuator?

- a) Control physical actions
- b) Measure temperature
- c) Transmit signals
- d) Monitor pressure

Correct Answer: a) Control physical actions

Explanation: An actuator is a mechanical device that converts electrical signals into physical movement or action. It is commonly used in industrial automation to control valves, dampers, or other machinery based on signals from a control system. Actuators are crucial for executing control strategies and ensuring that processes operate smoothly and efficiently.

14. What does a flow switch do?

- a) Controls temperature
- b) Monitors voltage
- c) Measures pressure
- d) Detects flow presence

Correct Answer: d) Detects flow presence

Explanation: A flow switch is a device that detects whether a fluid is flowing through a system. It can trigger alarms or activate other devices when flow is detected or not detected, making it essential for safety and operational efficiency in applications such as cooling systems, pump protection, and process control.

15. What is a common application for level sensors?

- a) Measuring flow rates
- b) Measuring temperature
- c) Controlling pressure
- d) Monitoring fluid levels

Correct Answer: d) Monitoring fluid levels

Explanation: Level sensors are widely used in industrial applications to monitor the levels of liquids in tanks or reservoirs. They help ensure that processes operate within safe limits, prevent spills or overflows, and facilitate automated control of filling or emptying operations in various industries, including water treatment and chemical processing.



16. What does a temperature transmitter do?

- a) Detects pressure
- b) Sends temperature signals
- c) Controls flow
- d) Measures temperature

Correct Answer: b) Sends temperature signals

Explanation: A temperature transmitter takes the input from a temperature sensor and converts it into a standardized output signal, typically 4-20 mA or digital. This allows the temperature information to be easily transmitted over long distances to control systems or monitoring equipment, enhancing the overall effectiveness of temperature control in industrial processes.

17. Which device maintains humidity levels?

- a) Flow meter
- b) Pressure gauge
- c) Hygrostat
- d) Thermostat

Correct Answer: c) Hygrostat

Explanation: A hygrostat is a device designed to measure and control humidity levels in an environment. It operates similarly to a thermostat but focuses on humidity rather than temperature. Hygrostats are essential in applications such as HVAC systems, food storage, and manufacturing processes where specific humidity levels are crucial for quality and safety.

18. What is the primary function of an industrial controller?

- a) Measure voltage
- b) Sense changes
- c) Control process variables
- d) Output signals

Correct Answer: c) Control process variables

Explanation: An industrial controller is responsible for managing and regulating various process variables, such as temperature, pressure, flow, or level, to maintain optimal operating conditions. It uses inputs from sensors to compare with setpoints and then sends commands to actuators or other devices, ensuring efficient and safe operation of industrial processes.



19. What is a common type of flow meter?

- a) Optical
- b) Capacitive
- c) Ultrasonic
- d) Inductive

Correct Answer: c) Ultrasonic

Explanation: An ultrasonic flow meter is a common type of flow measurement device that uses ultrasonic waves to determine the flow rate of liquids or gases. It operates by sending sound waves through the fluid and measuring the time it takes for the waves to travel between sensors. This non-invasive method is widely used in various industries for its accuracy and reliability.

20. What does a differential pressure sensor measure?

- a) Absolute pressure
- b) Temperature
- c) Pressure difference
- d) Flow rate

Correct Answer: c) Pressure difference

Explanation: A differential pressure sensor measures the difference in pressure between two points within a system. This measurement is crucial for applications like flow measurement, filter monitoring, and level detection. By understanding pressure differentials, operators can make informed decisions about process conditions, ensuring efficient and safe operations in industrial settings.

21. Which type of sensor uses capacitance?

- a) Thermocouple
- b) Capacitive level sensor
- c) Flow switch
- d) Pressure transducer

Correct Answer: b) Capacitive level sensor

Explanation: A capacitive level sensor operates by measuring changes in capacitance caused by the presence or absence of a material, typically a liquid. This sensor type is widely used in industrial applications for non-contact level measurement, providing reliable and accurate data without the need for moving parts, making it ideal for harsh environments.



22. What is the main advantage of digital transmitters?

- a) Higher accuracy
- b) Lower costs
- c) Simplicity
- d) High power consumption

Correct Answer: a) Higher accuracy

Explanation: Digital transmitters offer higher accuracy compared to analog transmitters because they convert measurements into digital signals, reducing the effects of noise and interference. This enhanced precision is essential in critical industrial applications where accurate process control is necessary for safety and efficiency. Additionally, digital transmitters often provide more advanced features, such as diagnostics and remote access.

23. What does a control loop do?

- a) Detects temperature
- b) Monitors voltage
- c) Measures flow
- d) Regulates process variables

Correct Answer: d) Regulates process variables

Explanation: A control loop is a system used in industrial automation to maintain desired process variables, such as temperature, pressure, or flow. It continuously monitors the output of a process, compares it to a setpoint, and makes adjustments as necessary to keep the process within specified limits. This feedback mechanism is crucial for optimizing efficiency and ensuring safety.

24. Which type of device is a relay?

- a) Controller
- b) Sensor
- c) Actuator
- d) Switch

Correct Answer: d) Switch

Explanation: A relay is an electromechanical switch that uses an electromagnetic coil to open or close contacts in a circuit. It allows low-power signals to control high-power devices, making it an essential component in industrial control systems. Relays are commonly used for automation tasks, providing isolation and protection for sensitive components in electrical circuits.



25. What is an example of a level measurement technique?

- a) All of the above
- b) Optical
- c) Inductive
- d) Capacitive

Correct Answer: a) All of the above

Explanation: Level measurement techniques include capacitive, inductive, and optical methods, each with its advantages and applications. Capacitive level sensors measure changes in capacitance due to the presence of a liquid, while inductive sensors use magnetic fields, and optical sensors rely on light transmission. Understanding these techniques allows industrial electricians to choose the most suitable method for specific 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.



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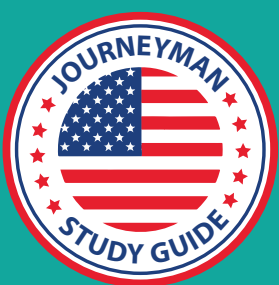
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