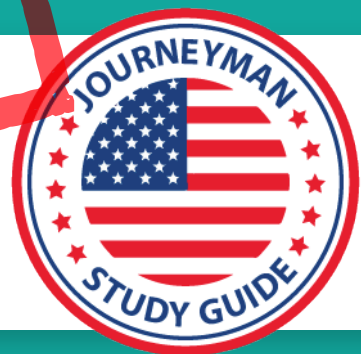


JOURNEYMAN STUDY GUIDE POWERLINE TECHNICIAN YEAR 2

SAMPLE
250 EXAM PREP QUESTIONS,
WITH EXPLAINED ANSWERS



APPRENTICES | INSTRUCTORS | INSTITUTES

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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.
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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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— Jessica Taylor, Apprentice Ironworker

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— John Davis, Union Welding Instructor

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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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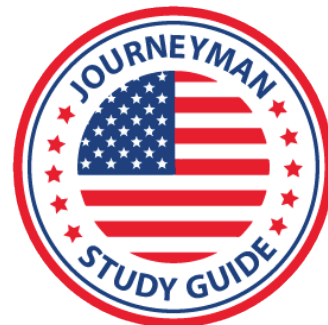
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SNOW STUDS QUEST



Year 2: Intermediate Powerline Skills

Subject 3. Transformers and Substations Basics

1. What is the main function of a transformer?

- a) Step up voltage
- b) Isolate circuits
- c) Step down voltage
- d) Regulate current

Correct Answer: a) Step up voltage

Explanation: Transformers are electrical devices that convert electrical energy from one voltage level to another through electromagnetic induction. The primary function of a transformer is to either step up (increase) or step down (decrease) voltage levels, which is essential for efficient power distribution in electrical systems.

2. What does voltage regulation ensure?

- a) Constant current
- b) High resistance
- c) Fluctuating power
- d) Stable voltage

Correct Answer: d) Stable voltage

Explanation: Voltage regulation is crucial in electrical systems as it maintains a consistent voltage level despite variations in load conditions. This ensures that electrical equipment operates effectively and safely, preventing damage due to overvoltage or undervoltage conditions, thereby enhancing the reliability of the power supply.

3. What is a substation?

- a) Electrical storage area
- b) Circuit breaker location
- c) Voltage transformation site
- d) Power generation site

Correct Answer: c) Voltage transformation site

Explanation: A substation is a facility in the electrical power distribution system where voltage is transformed from high to low levels or vice versa. It is essential for managing the flow of electricity, ensuring safe and efficient delivery from power plants to consumers while providing facilities for monitoring and controlling electrical networks.



4. Which type of transformer is used for high voltage?

- a) Step-down transformer
- b) Auto transformer
- c) Isolation transformer
- d) Step-up transformer

Correct Answer: d) Step-up transformer

Explanation: A step-up transformer is designed to increase voltage from a lower level to a higher level, making it ideal for applications such as power transmission over long distances. By stepping up voltage, it minimizes energy loss and improves the efficiency of power distribution systems.

5. What does a circuit breaker do?

- a) Interrupts current flow
- b) Increases voltage
- c) Stabilizes power
- d) Decreases current

Correct Answer: a) Interrupts current flow

Explanation: A circuit breaker is a safety device that automatically interrupts the flow of electrical current in the event of an overload or short circuit. This protective function prevents damage to electrical equipment and reduces the risk of fire hazards, ensuring the safety of both the system and its users.

6. How does a transformer work?

- a) Stores electrical energy
- b) Converts AC to DC
- c) Changes voltage levels
- d) Measures current flow

Correct Answer: c) Changes voltage levels

Explanation: A transformer operates on the principle of electromagnetic induction, where alternating current (AC) in the primary coil generates a magnetic field that induces voltage in the secondary coil. This enables the transformer to change voltage levels without altering the frequency, making it essential for power distribution.



7. What is the purpose of grounding in substations?

- a) Increase voltage
- b) Improve efficiency
- c) Prevent electrical shocks
- d) Store energy

Correct Answer: c) Prevent electrical shocks

Explanation: Grounding in substations is a safety measure that provides a low-resistance path for fault currents, preventing dangerous electrical shocks to personnel and equipment. It also helps stabilize voltage levels and ensures the safe operation of electrical systems by directing fault currents away from sensitive components.

8. What does a distribution transformer do?

- a) Stores energy
- b) Reduces voltage
- c) Generates power
- d) Monitors load

Correct Answer: b) Reduces voltage

Explanation: A distribution transformer is used to reduce high voltage electricity from transmission lines to a lower voltage suitable for residential or commercial use. This makes it safe for consumers to utilize electricity in their homes and businesses, ensuring efficient energy distribution in local networks.

9. What is an oil-filled transformer?

- a) Grounded transformer
- b) Air-cooled transformer
- c) Liquid-cooled transformer
- d) Low-voltage transformer

Correct Answer: c) Liquid-cooled transformer

Explanation: An oil-filled transformer uses oil as a coolant and insulator, which helps dissipate heat generated during operation and provides electrical insulation. This design is common in larger transformers used in substations, as it enhances efficiency and extends the lifespan of the equipment by preventing overheating.



10. What is the role of voltage regulators?

- a) Store electricity
- b) Control voltage levels
- c) Step down voltage
- d) Increase current

Correct Answer: b) Control voltage levels

Explanation: Voltage regulators are devices that maintain a constant voltage level in electrical systems, compensating for fluctuations caused by varying loads. They ensure that equipment receives stable power supply, which is vital for the proper functioning of sensitive electronics and machinery in substations and distribution networks.

11. What is a primary winding in a transformer?

- a) Grounding coil
- b) Control coil
- c) Output coil
- d) Input coil

Correct Answer: d) Input coil

Explanation: The primary winding in a transformer is the coil that receives electrical energy from the source. It creates a magnetic field when current flows through it, which induces voltage in the secondary winding. The primary winding is crucial for the transformer's operation and determines its input characteristics.

12. What does a load tap changer do?

- a) Adjusts voltage levels
- b) Monitors load
- c) Increases frequency
- d) Stores energy

Correct Answer: a) Adjusts voltage levels

Explanation: A load tap changer is a mechanism used in transformers to adjust the voltage output while the transformer is under load. This adjustment helps maintain consistent voltage levels in the distribution system, responding to changes in demand and ensuring that voltage remains within acceptable limits for consumers.



13. What is an automatic transformer?

- a) Variable voltage transformer
- b) Fixed voltage transformer
- c) Step-down transformer
- d) Grounding transformer

Correct Answer: a) Variable voltage transformer

Explanation: An automatic transformer is a type of transformer that can vary its output voltage based on the load demands. It typically has a single winding that serves as both the primary and secondary, allowing for efficient voltage regulation and making it suitable for applications requiring flexible voltage adjustments.

14. How does a substation improve power quality?

- a) Reduces voltage fluctuations
- b) Increases load demand
- c) Increases power loss
- d) Lowers equipment efficiency

Correct Answer: a) Reduces voltage fluctuations

Explanation: Substations improve power quality by stabilizing voltage and reducing fluctuations that can negatively impact electrical equipment. By managing the voltage levels and providing reactive power support, substations help ensure that consumers receive reliable and high-quality electricity, which enhances the overall performance of the electrical grid.

15. What does the term "distribution network" refer to?

- a) Local power delivery system
- b) Power generation system
- c) Power transmission lines
- d) Electrical storage facility

Correct Answer: a) Local power delivery system

Explanation: A distribution network refers to the system of electrical lines and equipment that delivers electricity from substations to end-users, such as homes and businesses. It includes transformers, switchgear, and distribution lines, playing a critical role in ensuring that electricity is efficiently and safely supplied to consumers.



16. What is the function of a busbar?

- a) Stores energy
- b) Increases resistance
- c) Measures voltage
- d) Distributes electrical power

Correct Answer: d) Distributes electrical power

Explanation: A busbar is a conductive material used to distribute electrical power to multiple circuits within substations and electrical panels. It serves as a common connection point, allowing for efficient and organized power distribution while minimizing resistance and potential energy loss in the system.

17. What is the significance of a grounding rod?

- a) Stabilizes power supply
- b) Lowers resistance
- c) Prevents electrical surges
- d) Increases voltage

Correct Answer: c) Prevents electrical surges

Explanation: A grounding rod is a metal rod driven into the ground that provides a direct electrical connection to the earth. Its primary role is to prevent electrical surges by directing excess current safely into the ground, protecting equipment and ensuring safety during fault conditions.

18. What is a switchgear?

- a) Power generation unit
- b) Electrical protection device
- c) Voltage regulator
- d) Energy storage system

Correct Answer: b) Electrical protection device

Explanation: Switchgear refers to a combination of electrical disconnects, fuses, and circuit breakers used to control, protect, and isolate electrical equipment in substations and distribution networks. It plays a vital role in ensuring system reliability and safety by enabling maintenance and protecting against faults.



19. What does "load management" mean?

- a) Storing electrical energy
- b) Increasing power generation
- c) Balancing energy demand
- d) Reducing circuit resistance

Correct Answer: c) Balancing energy demand

Explanation: Load management involves strategies to balance energy demand with available supply in electrical systems. By adjusting load levels, utilities can prevent overloads, improve system efficiency, and ensure that energy is distributed effectively, particularly during peak usage times, enhancing the overall reliability of power supply.

20. What type of current do transformers typically use?

- a) Direct current
- b) Pulsating current
- c) Alternating current
- d) High-frequency current

Correct Answer: c) Alternating current

Explanation: Transformers are designed to work with alternating current (AC) because they rely on the changing magnetic fields produced by AC to induce voltage in the secondary winding. This characteristic allows transformers to efficiently step up or step down voltage levels in power distribution systems.

21. What is the role of fuses in electrical systems?

- a) Increase voltage
- b) Prevent overloads
- c) Measure current
- d) Store energy

Correct Answer: b) Prevent overloads

Explanation: Fuses are safety devices that protect electrical circuits by melting and breaking the circuit when excessive current flows through them. This prevents damage to equipment and reduces the risk of fire hazards, acting as a crucial component in maintaining the safety and reliability of electrical systems.



22. How do substations contribute to grid stability?

- a) Reduce transmission losses
- b) Manage voltage levels
- c) Store excess power
- d) Increase generation capacity

Correct Answer: b) Manage voltage levels

Explanation: Substations contribute to grid stability by managing voltage levels and reactive power flow throughout the electrical distribution network. By maintaining consistent voltage and providing necessary adjustments during fluctuations, substations ensure that the electrical grid remains stable and reliable for all users.

23. What is a power transformer?

- a) Low resistance transformer
- b) Isolation transformer
- c) Small voltage transformer
- d) High capacity transformer

Correct Answer: d) High capacity transformer

Explanation: A power transformer is designed to transport large amounts of electrical power over long distances, typically used in transmission networks. These transformers operate at high voltages and are critical for efficient power distribution, enabling the transfer of electricity from generation points to substations and ultimately to consumers.

24. What is the advantage of three-phase transformers?

- a) Higher power capacity
- b) Lower efficiency
- c) Compact design
- d) Increased voltage drop

Correct Answer: a) Higher power capacity

Explanation: Three-phase transformers provide higher power capacity and more efficient power distribution compared to single-phase transformers. They are commonly used in industrial and commercial applications due to their ability to balance loads and deliver more consistent power, making them essential for modern electrical systems.



25. What is the purpose of an electrical relay?

- a) Control circuit operation
- b) Store electrical energy
- c) Step down voltage
- d) Generate electricity

Correct Answer: a) Control circuit operation

Explanation: An electrical relay is a switch that uses an electromagnet to open or close circuits automatically. It plays a crucial role in control systems, enabling the management of electrical equipment operations and protecting circuits from overloads by allowing for remote or automated control of power flows.



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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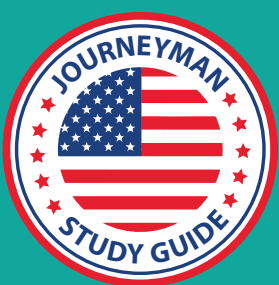
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