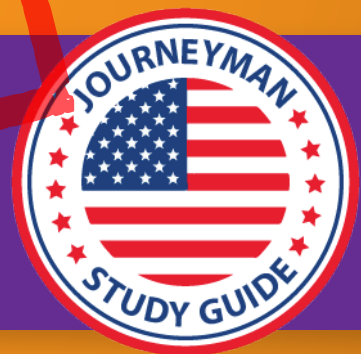


# JOURNEYMAN STUDY GUIDE NETWORK EQUIPMENT INSTALLER

## YEAR 3

**250 EXAM PREP QUESTIONS,  
WITH EXPLAINED ANSWERS**



APPRENTICES | INSTRUCTORS | INSTITUTES

[JourneymanStudyGuide.com](http://JourneymanStudyGuide.com)

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— Jessica Taylor, Apprentice Ironworker

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— John Davis, Union Welding Instructor

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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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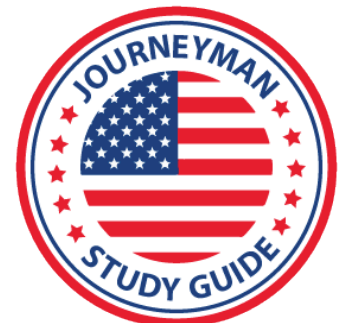
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# QUESTIONS



## **Year 3: Advanced Networking and System Integration**

### **Subject 3. Cloud Networking and Remote Access**

#### **1. What does SD-WAN stand for?**

- a) Simple Data Wide Area Network
- b) Systems Defined Wide Area Network
- c) Software-Defined Wide Area Network
- d) Secure Digital Wide Area Network

**Correct Answer: c) Software-Defined Wide Area Network**

**Explanation:** SD-WAN is a cloud-based networking technology designed to simplify the management of wide area networks. It allows Network Installation to leverage multiple connection types, such as MPLS, LTE, and broadband Internet. By using a centralized control function, SD-WAN enhances application performance, optimizes bandwidth usage, and improves overall network reliability.

#### **2. What is a primary benefit of SD-WAN?**

- a) Increased bandwidth costs
- b) Limited connectivity options
- c) Enhanced network agility
- d) Complex management requirements

**Correct Answer: c) Enhanced network agility**

**Explanation:** One of the key advantages of SD-WAN is its ability to provide enhanced network agility. This allows Network Installation to quickly adapt to changing business needs and to scale resources as required. The flexibility of using multiple types of connections improves overall network performance and reduces downtime, making it easier for businesses to operate efficiently.

#### **3. Which protocol is commonly used for remote desktop connections?**

- a) HTTP
- b) SNMP
- c) FTP
- d) RDP

**Correct Answer: d) RDP**

**Explanation:** RDP, or Remote Desktop Protocol, is a widely used protocol for establishing remote desktop connections. It allows Network Installation to access computers remotely, making it easier to manage configurations or troubleshoot issues. RDP provides a secure channel for transmitting data between the client and server, ensuring that sensitive information remains protected during remote sessions.



#### 4. What is a benefit of using cloud networking?

- a) Scalability
- b) Limited accessibility
- c) Higher maintenance
- d) Reduced flexibility

**Correct Answer: a) Scalability**

**Explanation:** Cloud networking solutions, like SD-WAN, offer significant scalability benefits. This allows Network Installation to easily adjust network resources based on current demands. As businesses grow or change, they can rapidly increase or decrease their network capacity without the need for extensive hardware investments, which ultimately leads to more efficient use of resources and cost savings.

#### 5. What does a VPN provide for remote access?

- a) Public network access
- b) Direct Internet access
- c) Unrestricted bandwidth
- d) Secure encrypted connection

**Correct Answer: d) Secure encrypted connection**

**Explanation:** A Virtual Private Network (VPN) provides a secure and encrypted connection for remote access to a private network. For Network Installation, using a VPN ensures that sensitive information transmitted over the Internet remains confidential and protected from unauthorized access. This is crucial for maintaining the integrity and security of data, especially in a remote working environment.

#### 6. Which cloud service is essential for SD-WAN?

- a) DaaS
- b) SaaS
- c) IaaS
- d) PaaS

**Correct Answer: c) IaaS**

**Explanation:** Infrastructure as a Service (IaaS) plays a vital role in SD-WAN implementations. It allows Network Installation to utilize virtualized computing resources over the Internet, enabling easier management and deployment of networking equipment. By leveraging IaaS, organizations can optimize their SD-WAN configurations without needing to invest in physical hardware, thus reducing overall costs.



### 7. What does latency affect in a network?

- a) Hardware lifespan
- b) Data transfer speed
- c) Network security
- d) User satisfaction

**Correct Answer: b) Data transfer speed**

**Explanation:** Latency refers to the delay experienced in data transmission over a network. For Network Installation, high latency can significantly affect data transfer speeds, leading to slower application performance and degraded user experiences. Understanding and managing latency is crucial for ensuring that applications function optimally, especially in environments where real-time data processing is essential.

### 8. What does QoS stand for in networking?

- a) Queue of Systems
- b) Quality of Service
- c) Quantity of Signals
- d) Quick Operating Speed

**Correct Answer: b) Quality of Service**

**Explanation:** Quality of Service (QoS) is a critical concept in networking that prioritizes certain types of traffic to ensure optimal performance. For Network Installation, implementing QoS can help manage bandwidth allocation effectively, ensuring that critical applications receive the necessary resources to function smoothly. This is particularly important in environments with high traffic demands or where certain applications require priority.

### 9. What role does a firewall play in networking?

- a) Reduces data usage
- b) Controls network traffic
- c) Increases network speed
- d) Enhances user experience

**Correct Answer: b) Controls network traffic**

**Explanation:** A firewall serves to control and monitor network traffic, acting as a barrier between trusted internal networks and untrusted external networks. For Network Installation, deploying a firewall is essential for safeguarding against unauthorized access and cyber threats. It can enforce security policies, allowing only legitimate traffic while blocking harmful data packets that could compromise network integrity.



**10. Which technology facilitates remote desktop access?**

- a) SSH
- b) Telnet
- c) VNC
- d) SNMP

**Correct Answer: c) VNC**

**Explanation:** Virtual Network Computing (VNC) is a technology that enables remote desktop access, allowing users to control a computer remotely via a graphical interface. For Network Installation, VNC provides a valuable tool for technical support and management, enabling technicians to troubleshoot and configure systems without being physically present at the location. This increases efficiency and response times for issues that arise.

**11. What does MPLS stand for?**

- a) Maximum Protocol Load Service
- b) Multi-Point Label Service
- c) Managed Protocol Label System
- d) Multi-Protocol Label Switching

**Correct Answer: d) Multi-Protocol Label Switching**

**Explanation:** Multi-Protocol Label Switching (MPLS) is a routing technique used to manage traffic flows across enterprise networks. For Network Installation, MPLS provides a highly efficient way to direct data from one node to the next, based on short path labels rather than long network addresses. This enhances speed and reduces latency, making it ideal for businesses requiring high-performance applications.

**12. Which element is crucial for successful SD-WAN deployment?**

- a) Strong internet connection
- b) Local server storage
- c) Manual configuration
- d) Physical hardware

**Correct Answer: a) Strong internet connection**

**Explanation:** A strong internet connection is essential for successful SD-WAN deployment. For Network Installation, the effectiveness of SD-WAN relies on the ability to utilize multiple Internet connections, including broadband and LTE. A robust connection ensures that traffic can be routed efficiently, leading to optimal performance and reliability for applications over the cloud.



**13. Which device is often used in remote access setups?**

- a) Hub
- b) Router
- c) Modem
- d) Switch

**Correct Answer: b) Router**

**Explanation:** A router is commonly used in remote access setups to direct traffic between the local network and external networks, including the Internet. For Network Installation, routers facilitate the connection of remote devices to the organization's network, ensuring that remote users can access necessary resources securely. This makes routers a vital component in today's cloud-based networking environments.

**14. What is the primary function of a load balancer?**

- a) Increase storage capacity
- b) Monitor network speed
- c) Distribute network traffic
- d) Improve data security

**Correct Answer: c) Distribute network traffic**

**Explanation:** A load balancer plays a crucial role in distributing network traffic across multiple servers or resources. For Network Installation, this ensures that no single server becomes overwhelmed with requests, improving performance and reliability. By balancing the load, organizations can achieve better resource utilization and enhance application availability for users.

**15. Which cloud deployment model provides maximum control?**

- a) Community cloud
- b) Private cloud
- c) Hybrid cloud
- d) Public cloud

**Correct Answer: b) Private cloud**

**Explanation:** A private cloud deployment model provides maximum control over the infrastructure and resources. For Network Installation, this model allows organizations to customize their networking solutions to meet specific security and compliance requirements. It enables better resource management and ensures that sensitive data remains within the organization's control while utilizing cloud benefits.



**16. What is the main feature of Software-Defined Networking?**

- a) Centralized management
- b) Hardware-based controls
- c) Manual configuration
- d) Static routing

**Correct Answer: a) Centralized management**

**Explanation:** Software-Defined Networking (SDN) features centralized management, allowing administrators to configure and manage network resources through software applications. For Network Installation, this simplifies network management and enhances agility, as changes can be made quickly and efficiently without needing to interact with physical hardware. This flexibility is essential for adapting to evolving business needs.

**17. Which technology enhances remote connection security?**

- a) SSL
- b) DHCP
- c) HTTP
- d) FTP

**Correct Answer: a) SSL**

**Explanation:** Secure Sockets Layer (SSL) technology enhances remote connection security by encrypting data transmitted between users and servers. For Network Installation, implementing SSL ensures that sensitive information remains protected from eavesdroppers and cyber threats. This is crucial for maintaining confidentiality and integrity during remote access sessions, particularly in environments where secure communication is a priority.

**18. What is the primary purpose of network segmentation?**

- a) Increase network costs
- b) Simplify management
- c) Improve performance and security
- d) Reduce bandwidth

**Correct Answer: c) Improve performance and security**

**Explanation:** Network segmentation involves dividing a network into smaller, manageable segments to improve performance and security. For Network Installation, this practice helps isolate network issues, limit broadcast traffic, and enhance security by containing potential threats within specific segments. This approach is particularly beneficial for organizations looking to optimize their network infrastructure and protect sensitive data.



**19. Which of the following is a benefit of remote access?**

- a) Increased operational costs
- b) Flexibility in work locations
- c) Reduced employee productivity
- d) Limited access to applications

**Correct Answer: b) Flexibility in work locations**

**Explanation:** Remote access provides the flexibility for employees to work from various locations outside the traditional office environment. For Network Installation, this capability enhances productivity by allowing staff to connect to corporate networks and resources from anywhere with Internet access. This flexibility can lead to improved job satisfaction and better work-life balance for employees.

**20. What role does encryption play in networking?**

- a) Limits data access
- b) Increases network complexity
- c) Reduces data speed
- d) Enhances security

**Correct Answer: d) Enhances security**

**Explanation:** Encryption is a vital process in networking that enhances security by encoding data to prevent unauthorized access. For Network Installation, implementing encryption protocols safeguards sensitive information, ensuring that only authorized users can decrypt and access the data. This is particularly important in remote access scenarios, where data is transmitted over potentially insecure networks.

**21. What is the function of a gateway in networking?**

- a) Increases bandwidth
- b) Stores data
- c) Monitors performance
- d) Connects different networks

**Correct Answer: d) Connects different networks**

**Explanation:** A gateway acts as a bridge between different networks, enabling communication and data transfer between systems that may use different protocols. For Network Installation, gateways are crucial for integrating cloud-based solutions with on-premises infrastructure, facilitating seamless connectivity and allowing organizations to leverage both environments effectively.



**22. Which type of cloud service model is SD-WAN?**

- a) DaaS
- b) SaaS
- c) IaaS
- d) PaaS

**Correct Answer: b) SaaS**

**Explanation:** Software as a Service (SaaS) is the cloud service model that encompasses SD-WAN solutions. For Network Installation, utilizing SaaS for SD-WAN allows organizations to access networking capabilities via the Internet without needing to manage physical infrastructure. This model is cost-effective and scalable, supporting dynamic business needs while minimizing maintenance overhead.

**23. How does cloud storage benefit network installation?**

- a) Reduces data access speed
- b) Requires physical servers
- c) Increases data redundancy
- d) Limits storage capacity

**Correct Answer: c) Increases data redundancy**

**Explanation:** Cloud storage significantly benefits network installation by increasing data redundancy, ensuring that copies of data are stored across multiple locations. This enhances data availability and resilience against loss or corruption. For organizations, this means improved disaster recovery capabilities, allowing them to quickly restore operations in the event of a data loss incident or system failure.

**24. Which of the following is critical for bandwidth management?**

- a) Application prioritization
- b) Static IP addresses
- c) Increased latency
- d) Hardware upgrades

**Correct Answer: a) Application prioritization**

**Explanation:** Application prioritization is critical for effective bandwidth management, allowing organizations to allocate resources based on the importance of specific applications. For Network Installation, this ensures that mission-critical applications receive adequate bandwidth, improving overall performance and user experience. Prioritizing applications can also help mitigate congestion during peak usage times.



**25. Why is monitoring network performance important?**

- a) Improved user experience
- b) Increased downtime
- c) Cost reduction
- d) Simplified configurations

**Correct Answer: a) Improved user experience**

**Explanation:** Monitoring network performance is essential for ensuring an optimal user experience. For Network Installation, regularly assessing network metrics such as latency, bandwidth usage, and packet loss helps identify potential issues before they impact users. This proactive approach enables organizations to maintain high performance and reliability within their networks, ultimately leading to increased satisfaction and productivity among users.



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](https://UnityCrestSolutions.com), where they continue to help organizations and people succeed.



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We're here to support your journey toward becoming a certified tradesperson. However, your success ultimately depends on your own effort, practical experience, and thorough preparation with official resources.



# Unlock Your Potential With the Journeyman Study Guide

Embark on a journey to excellence in your trade with the Journeyman Study Guide, an essential resource for aspiring tradespeople. This guide is meticulously crafted to provide you with the knowledge and skills required to succeed on the Journeyman exam. Whether you're a seasoned professional or new to the field, this guide offers valuable insights to enhance your understanding and boost your confidence.

## What's Inside:

- **Detailed Overviews** of potential exam formats and key concepts.
- **Practical Tips** for effective study habits and exam strategies.
- **Practice Questions** to test your knowledge and sharpen your skills.

## Tailored to Your Needs:

Our guide is specifically designed for a variety of trades across all Canadian provinces, ensuring you receive the most relevant and comprehensive information possible.

## Testimonials:

"As an apprentice, the Journeyman Study Guide made complex topics manageable, boosting my confidence, income and career." - Emily Tran, Apprentice Carpenter

"Adapting to Canadian standards was really hard, but the guide bridged the gap between my previous experiences and Canadian requirements." - Ahmed Al-Sayed, Plumber, originally from Egypt

"As an instructor, I find the Journeyman Study Guide aligns well with the curriculum and significantly aids my students." - Derek Smith, Welding Instructor

## A Companion, Not a Substitute:

Remember, the Journeyman Study Guide is a tool to complement your study regimen. For optimal results, use this guide in conjunction with the latest official materials issued by government authorities.

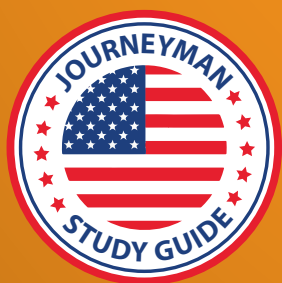
## Are You Ready to Take the Next Step?

With the Journeyman Study Guide in hand, you are well-equipped to tackle the challenges of the exam and step confidently into your career as a certified tradesperson.

Join thousands of successful tradespeople who have advanced their careers with our guide.

Your journey to becoming Journeyman certified starts here!

Visit us at [JourneymanStudyGuide.com](http://JourneymanStudyGuide.com) today.



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