BLACKBIRD FOR TRAINING

Preparation Network Associate

21 – 25 November 2027
Amman (Jordan)



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Ref: 3255467_342784 **Date:** 21 – 25 November 2027 **Location:** Amman (Jordan) **Fees:** 4900 GBP

Introduction

The rapid expansion of digital infrastructure has made network technologies an essential foundation for modern organizations. As institutions rely increasingly on interconnected systems to deliver their services, the need for professionals who understand network structures, communication mechanisms, and performance optimization has become more critical than ever. The Preparation Network Associate course provides a comprehensive learning path designed to equip participants with a solid understanding of network fundamentals, device functions, and the key techniques used to maintain stable and secure environments.

This course is designed for professionals working across various departments who require a deeper understanding of how networks operate within organizational systems. It supports individuals who aim to strengthen their technical awareness, enhance their ability to troubleshoot network issues, and contribute effectively to improving operational performance. It is also suitable for those looking to develop stronger technical foundations to support digital transformation initiatives.

What makes this program valuable is its balanced approach that combines structured theoretical knowledge with practical analysis. Participants are able to explore core networking principles, understand how devices interact, examine data flow processes, and apply analytical thinking to evaluate network efficiency. Through this structured framework, learners gain the capability to interpret network behaviors, assess performance challenges, and develop reliable solutions that enhance system dependability and service continuity.

Course Objectives

- Understand the fundamental concepts of networking.
- Identify the main components of network infrastructure.
- Comprehend how data moves across network layers.
- Analyze the structure and function of standard networking models.
- Recognize the purpose of core networking devices and their roles.
- Apply basic troubleshooting techniques for common network issues.
- Understand addressing systems and how networks are structured.
- Study routing mechanisms and how networks interconnect.
- Assess network requirements based on operational needs.
- Build analytical skills to support and optimize technical environments.



Course Outlines

Day One: Networking Fundamentals

- Understanding the definition and purpose of networks.
- Exploring core elements within a typical network environment.
- Studying how data travels from one point to another.
- Differentiating between various network types and their uses.
- Reviewing the layered networking model and its role in communication.
- Practical activity: analyzing the structure of a simple network.

Day Two: Network Devices and Components

- Identifying the essential devices used in modern networks.
- Studying the functions of switches and routers.
- Understanding how security devices protect data.
- Exploring the relationship between main devices within a network.
- Evaluating how to select equipment based on organizational needs.
- Practical task: designing a small-scale network layout.

Day Three: Network Design and Addressing

- Understanding network addressing systems and their structure.
- Breaking down address segmentation and network design principles.
- Learning methods for distributing addresses efficiently.
- Analyzing the role of subnet masks in organizing network groups.
- Practical task: creating a multi-segment network design.
- Identifying potential congestion points within network environments.

Day Four: Routing and Network Connectivity

- Studying routing principles and how paths are chosen.
- Analyzing how devices determine the best route for data.
- Reviewing systems that manage routing operations.
- Differentiating between internal and external routing approaches.
- Connecting multiple networks and examining data flow between them.
- Practical activity: interpreting and analyzing routing tables.



Day Five: Network Management and Troubleshooting

- Identifying common problems in network environments.
- Learning tools that assist in diagnosing disruptions.
- Evaluating factors that influence network performance.
- Applying methods to improve service quality and stability.
- Practical project: analyzing a real network case study.
- Preparing a technical report describing improvement recommendations.

Why Attend This Course? Wins & Losses!

- Gain a comprehensive understanding of essential networking concepts.
- Develop the ability to interpret and evaluate network structures.
- Strengthen technical skills needed to support network environments.
- Improve your ability to identify and resolve common network issues.
- Enhance your contribution to organizational technical operations.
- Learn to assess infrastructure requirements accurately.
- Build practical insight that supports digital transformation efforts.
- Acquire structured methods for designing and optimizing networks.

Conclusion

The Preparation Network Associate course delivers a complete learning pathway for anyone seeking to strengthen their understanding of network systems and their operational role within organizations. Through a balanced mix of theoretical concepts and real-world practice, the program supports the development of high-value skills that enable participants to analyze network behavior, evaluate technical needs, and make informed decisions that contribute directly to improving system reliability.

By covering the foundations of network design, addressing, routing, device functions, and troubleshooting, the course ensures that learners gain a broad and practical understanding of how modern networks operate. The included exercises and case studies offer essential opportunities to apply this knowledge in realistic environments, further reinforcing long-term competence.

With these capabilities, participants become better equipped to support technical operations, address network challenges with confidence, and contribute to building stable, efficient, and secure digital infrastructures—ensuring stronger organizational performance and readiness for future technological advancements.

