



Mobility+ Prep Course

Learn how to successfully implement and support mobile networks while preparing to pass the Mobility+ exam.

The CompTIA Mobility+ certification designates an experienced IT professional who can deploy, integrate, support and manage a mobile environment. By earning this certification, you demonstrate that you have the knowledge and skills to understand and research capabilities of various mobile devices and aspects of over-the-air technologies, as well as ensure proper security measures are maintained for devices and platforms.

In this course you will learn about over-the-air technologies (Wi-Fi, cellular, Bluetooth, RF), network infrastructure, mobile device management, security and troubleshooting. You will learn key concepts for managing wireless devices including on-boarding, off-boarding, and remote management.

Through class discussion exercises and role-playing you will explore the challenges of deploying and supporting mobile networks and develop relevant real-world solutions. The hands-on lab exercises allow you to explore capabilities and technologies used in mobile device deployment, configuration and management.

Certification:

CompTIA Mobility+ (Exam MB0-001)

What You'll Learn

- Configuring over-the-air technologies
- Identifying RF principles
- Implementing a wireless network infrastructure
- Preparing the enterprise for a mobile network
- Deploying mobile devices
- Maintaining mobile device operations
- Deploying mobile applications and related technologies
- Principles of mobile device management
- Deploying and configuring MDM systems
- Implementing mobile device security
- Troubleshooting mobile devices and networks

Who Needs to Attend

- Individuals pursuing the Mobility+ certification
- Mobile device administrators
- Mobility architects and engineers
- Help desk personnel who support mobile devices
- Network administrators in an environment with mobile devices
- Wireless network administrators

Prerequisites

- [Network+ Prep Course \(N10-005\)](#)
- [Understanding Networking Fundamentals](#)

Follow-On Courses

- [Enterprise Wi-Fi Administration \(CWNA\)](#)
- [Enterprise Wi-Fi Security \(CWSP\)](#)

Course Outline

1. Configuring Over-the-Air Technologies

- Mobile Networking Introduction
- Evaluate and Select Cellular Technologies
- Implement Wi-Fi Technologies

2. Applying RF Principles

- Apply Radio Frequency Concepts
- Conduct a Site Survey and Analysis

3. Implementing a Wireless Network Infrastructure

- Choose a Network Topology
- Describe the OSI Model
- Implement Network Ports and Protocols

4. Implementing Network Infrastructure Devices and Services

- Implement a Firewall
- Implement Connectivity Devices and Services
- Traverse Wireless and Wired Networks
- Implement Wireless IP Traffic
- Configure Core Wireless Network TCP/IP Services
- Implement Disaster Recovery

5. Implementing Mobile Solutions

- Create a Mobile Device Policy
- Align Mobile Device Management to Enterprise Requirements
- Align Mobile Service Solutions to Enterprise Requirements
- Align Mobile Infrastructure Management to Enterprise Requirements

6. Preparing the Enterprise for a Mobile Network

- Implement the SDLC
- Prepare the Infrastructure

7. Deploying Mobile Devices

- Manage Cellular Device Activation and Deployment
- Configure Mobile Device Peripherals
- Complete the Onboarding and Provision Process
- Complete the Off-boarding and De-provisioning Process

8. Implementing Mobile Device Operations

- Distribute Centralized Content
- Implement Deployment Best Practices
- Configure Remote Capabilities

9. Maintaining Mobile Device Operations

- Manage Lifecycle Operations
- Back Up, Recover, and Segregate Data
- Stay Current with New Technologies

10. Deploying Mobile Applications and Related Technologies

- Choose Mobile App Types
- Determine In-house Application Development Requirements
- Implement Push Notification

11. Implementing Mobile App Protocols and Services

- Configure Mobile Applications
- Implement Proxy and Gateway Settings
- Implement Information Traffic Topology

12. Implementing Mobile Security

- Implement Encryption Methods
- Implement Access Control
- Implement PKI
- Implement Security Monitoring

13. Mitigating Mobile Network Risk

- Identify Risks and Threats
- Implement Mitigation Techniques

14. Implementing Incident Response

- Identify an Incident

- Create and Execute a Policy-Based Response
- Report an Incident

15. Troubleshooting Mobile Devices and Networks

- Implement Troubleshooting Methodology
- Troubleshoot Device Problems
- Troubleshoot Application Problems
- Troubleshoot Over-the-Air Connectivity Problems
- Troubleshoot Security Problems

16. Appendix A: Mapping Course Content to CompTIA Mobility+ Exam MB0-001

17. Appendix B: CompTIA Mobility+ Acronyms

Labs

Lab 1: Remote Lab Access

Lab 2: Configuring a Wireless Router

Lab 3: Configuring the Android Emulator

Lab 4: Configuring a Wi-Fi Client Portable Hotspot

Lab 5: Planning a Wi-Fi Site Survey

Lab 6: Identifying Port and Protocol Use on a Network

Lab 7: Implementing QOS for Wireless IP traffic

Lab 8: Backing Up a Mobile Device

Lab 9: Installing Digital Certificates

Lab 10: Examining Mobile Device Storage

Lab 11: Implementing Mobile Device Management

Lab 12: Exploring Remote Device Capabilities

Lab 13: Using Profiles to Manage Mobile Devices

Lab 14: Implementing a Mobile Device VPN

Lab 15: Exploring Encryption

Lab 16: Exploring Digital Certificates

Lab 17: Identifying Mobile Network Risks

Lab 18: Troubleshooting Application Problems

Lab 19: Troubleshooting Wireless Connectivity

Lab 20: Troubleshooting Security Problems

Further Information:

For More information, or to book your course, please Call/Email us on - +254 713 027 191

[KENYA - training.kenya@clclearningafrica.com](mailto:training.kenya@clclearningafrica.com)

[TANZANIA - training.tanzania@clclearningafrica.com](mailto:training.tanzania@clclearningafrica.com)

[UGANDA - training.uganda@clclearningafrica.com](mailto:training.uganda@clclearningafrica.com)

[RWANDA - training.rwanda@clclearningafrica.com](mailto:training.rwanda@clclearningafrica.com)

[BURUNDI - training.burundi@clclearningafrica.com](mailto:training.burundi@clclearningafrica.com)

[ETHOPIA - training.ethopia@clclearningafrica.com](mailto:training.ethopia@clclearningafrica.com)