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I.T. TRAINING & CONSULTING

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CompTIA® Mobility+® (Exam MB0-001)

Course Specifications

Course Number:

093031

Course Length:

5 days

Course Description

Overview:

The mobile age is upon us. More and more people are using tablets, smartphones, and other mobile devices to accomplish things in their personal and professional lives. As businesses embrace this trend, they need to support their employees in the use of mobile devices while protecting their own assets, such as intellectual property.

If you are already a traditional network support technician, you're well on the way to having the knowledge and skills needed to support the mobile workforce. This course builds on your existing knowledge and experience to provide you with critical concepts related to over-the-air technologies, wireless networking, and mobile devices.

Course Objectives:

Upon successful completion of this course, you will be able to support mobile cellular and wireless devices. They will:

You will:
- Configure over-the-air technologies.
- Apply RF principles.
- Implement a wireless network infrastructure.
- Implement network infrastructure devices and services.
- Implement mobile solutions.
- Prepare the enterprise for a mobile network.
- Deploy mobile devices.
- Implement mobile device operations.
- Maintain mobile device operations.
- Deploy mobile applications and related technologies.
- Implement mobile app protocols and services.
- Implement mobile security.
- Mitigate mobile network risk.

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- Implement incident response.
- Troubleshoot mobile devices and networks.

Target Student:

Students taking this course are IT support personnel or prospective support personnel who have at least one year of experience working with computer networks, and who want to further develop their IT skills to include mobile device and wireless support.

This course is also for students seeking the CompTIA® Mobility+® (Exam MB0-001) certification.

Prerequisites:

To ensure your success in this course, you should have experience working with computer hardware, networking, and Windows operating systems. You can obtain this level of skills and knowledge by taking the following courses:

- *CompTIA® A+® Certification: A Comprehensive Approach (Exams 220-801 and 220-802)*
- *CompTIA® Network+® Certification (Exam N10-005)*

Course Content

Lesson 1: Configuring Over-the-Air Technologies

Topic A: Mobile Networking Introduction

Topic B: Evaluate and Select Cellular Technologies

Topic C: Implement Wi-Fi Technologies

Lesson 2: Applying RF Principles

Topic A: Apply Radio Frequency Concepts

Topic B: Conduct a Site Survey and Analysis

Lesson 3: Implementing a Wireless Network Infrastructure

Topic A: Choose a Network Topology

Topic B: Describe the OSI Model

Topic C: Implement Network Ports and Protocols

Lesson 4: Implementing Network Infrastructure Devices and Services

Topic A: Implement a Firewall

Topic B: Implement Connectivity Devices and Services

Topic C: Traverse Wireless and Wired Networks

Topic D: Implement Wireless IP Traffic

Topic E: Configure Core Wireless Network TCP/IP Services

Topic F: Implement Disaster Recovery

Lesson 5: Implementing Mobile Solutions

Topic A: Create a Mobile Device Policy

Topic B: Align Mobile Device Management to Enterprise Requirements

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Topic C: Align Mobile Service Solutions to Enterprise Requirements

Topic D: Align Mobile Infrastructure Management to Enterprise Requirements

Lesson 6: Preparing the Enterprise for a Mobile Network

Topic A: Implement the SDLC

Topic B: Prepare the Infrastructure

Lesson 7: Deploying Mobile Devices

Topic A: Manage Cellular Device Activation and Deployment

Topic B: Configure Mobile Device Peripherals

Topic C: Complete the Onboarding and Provision Process

Topic D: Complete the Off-boarding and De-provisioning Process

Lesson 8: Implementing Mobile Device Operations

Topic A: Distribute Centralized Content

Topic B: Implement Deployment Best Practices

Topic C: Configure Remote Capabilities

Lesson 9: Maintaining Mobile Device Operations

Topic A: Manage Lifecycle Operations

Topic B: Back Up, Recover, and Segregate Data

Topic C: Stay Current with New Technologies

Lesson 10: Deploying Mobile Applications and Related Technologies

Topic A: Choose Mobile App Types

Topic B: Determine In-house Application Development Requirements

Topic C: Implement Push Notification

Lesson 11: Implementing Mobile App Protocols and Services

Topic A: Configure Mobile Applications

Topic B: Implement Proxy and Gateway Settings

Topic C: Implement Information Traffic Topology

Lesson 12: Implementing Mobile Security

Topic A: Implement Encryption Methods

Topic B: Implement Access Control

Topic C: Implement PKI

Topic D: Implement Security Monitoring

Lesson 13: Mitigating Mobile Network Risk

Topic A: Identify Risks and Threats

Topic B: Implement Mitigation Techniques

Lesson 14: Implementing Incident Response

Topic A: Identify an Incident

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Topic B: Create and Execute a Policy-Based Response

Topic C: Report an Incident

Lesson 15: Troubleshooting Mobile Devices and Networks

Topic A: Implement Troubleshooting Methodology

Topic B: Troubleshoot Device Problems

Topic C: Troubleshoot Application Problems

Topic D: Troubleshoot Over-the-Air Connectivity Problems

Topic E: Troubleshoot Security Problems