Computer Maintenance  
CompTIA A+ Essentials  
C1

Course INTRODUCTION:

CompTIA A+ certification validates the latest skills needed by computer support professionals, and confirms a technician's ability to perform tasks such as installation, configuration, diagnosing, preventive maintenance and basic networking.

Course CONTENTS

- Personal Computer Components
- Operating System Fundamentals
- PC Technician Professional Best Practices
- Installing and Configuring Peripheral Components
- Installing and Configuring System Components
- Troubleshooting System Components
- Installing and Configuring Operating Systems
- Maintaining and Troubleshooting Microsoft Windows Networking Technologies
- Installing and Managing Network Connections
- Supporting Laptops and Portable Computing Devices
- Supporting Printers and Scanners
- Personal Computer Security Concepts

Duration

6 days

Venue

Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
Network Maintenance
CompTIA N+ Certification
C2

Course INTRODUCTION:

In this course students learn skills that help prepare for the CompTIA Network+ certification, The course describes the major networking technologies, systems, skills, and tools used in modern PC-based computer networks.

Prerequisites
Windows 98 - Level 1
Windows 2000 - Level 1
A+ Certification
Next Steps
5117 Installing, Configuring, Troubleshooting, and Maintaining Windows Vista®
2272 Implementing and Supporting Microsoft Windows XP Professional

COURSE CONTENTS

Network Theory
Network Communications Methods
Network Data Delivery
Network Media and Hardware
Network Implementations
Networking with TCP/IP
TCP/IP Services
Other Network Protocols
Local Area Network (LAN) Infrastructure
Wide Area Network (WAN) Infrastructure
Network Security
Remote Networking
Disaster Recovery
Network Data Storage
Network Operating Systems

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
MCTS (Windows Server 2008)
Fundamentals of Windows Server® 2008 Network Infrastructure and Application Platform
C3

Course Introduction:

This course introduces network infrastructure and application platform concepts and configurations provided by Window Server 2008. Students will be able to acquire a fundamental understanding in order to pursue advanced topics.

Course Prerequisite:

Working knowledge of a Windows 2003 environment
Server+ Certification
Network+ Certification
A+ Certification (2006 Objectives)

Course Contents

Fundamentals of Network Infrastructure
IT Professionals in the Enterprise
TCP/IPv4 Fundamentals
Communication Technologies Fundamentals
Creating IPv4 Address Spaces
IPv6 Fundamentals
Fundamentals of Administering Windows Server 2008
Security Fundamentals
Fundamentals of Securing Network Communication
Windows Firewall and Caching Fundamentals
Remote Access Fundamentals
Routing Fundamentals
Network Load Balancing Fundamentals
Configuring Print Resources and Printing Pools
Server Virtualization Overview

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.

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Page | 317
Fundamentals of Microsoft Server 2008 Active Directory

C4

Course INTRODUCTION:

(Preliminary Outline) This course provides Active Directory Technology Specialists an introduction to Active Directory server roles in Windows Server 2008.

COURSE PREREQUISITE:

Working knowledge of network technologies

COURSE CONTENTS

Exploring Windows Server 2008 Active Directory Roles
Introduction to Active Directory Domain Services
Introduction to Active Directory Lightweight Directory Services
Introduction to Active Directory Certificate Services
Introduction to Active Directory Rights Management Services
Introduction to Active Directory Federation Services
Creating AD Domain Services User and Computer Objects
Creating Active Directory Domain Services Groups and Organizational Units

Managing Access to Resources

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.

Tel: 00964 7270000003-00964 7270000002 - P.O Box :6037 Al-Tajiyat-Baghdad –Iraq E.Mail : aptiapec@yahoo.com
Configuring, Managing, and Maintaining Windows Server 2008 Servers [Accelerated Bundle]

C5

Course INTRODUCTION:

This course combines five days worth of training content from the Network Infrastructure Technology Specialist, Active Directory Technology Specialist, and IT Professional Server Administrator courses of Windows Server 2008.

COURSE PREREQUISITE:

At least one year experience operating Windows Servers in the area of account management, server maintenance, server monitoring, or server security.
A+ Certification (2006 Objectives)
Server+ Certification
Network+ Certification (Fourth Edition) 2009 Objectives

COURSE CONTENTS
Introduction to Administrative Tasks in Windows Server 2008 Environment
Creating Active Directory Domain Services User and Computer Objects
Creating Groups and Organizational Units
Managing Access to Resources in Active Directory Domain Services
Configuring Active Directory Objects and Trusts
Creating and Configuring Group Policy
Configuring User Environments Using Group Policy
Implementing Security Using Group Policy
Configuring Server Security Compliance
Configuring and Managing Storage Technologies
Configuring and Managing Distributed File System
Configuring Network Access Protection
Configuring Availability of Network Resources
Monitoring and Maintaining Windows Server 2008 Servers
Managing Windows Server 2008 Backup and Restore

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
Configuring and Troubleshooting a Windows Server 2008 Network Infrastructure

C6

**COURSE CONTENTS:**

- Module 1: Installing and Configuring Servers
- Module 2: Configuring and Troubleshooting DNS
- Module 3: Configuring and Managing WINS
- Module 4: Configuring and Troubleshooting DHCP
- Module 9: Configuring IPsec
- Module 10: Monitoring and Troubleshooting IPsec
- Module 11: Configuring and Managing Distributed File System
- Module 12: Configuring and Managing Storage Technologies
- Module 5: Configuring and Troubleshooting IPv6 TCP/IP
- Module 6: Configuring and Troubleshooting Routing and Remote Access
- Module 7: Installing, Configuring, and Troubleshooting the Network Policy Server Role Service
- Module 8: Configuring Network Access Protection
- Module 13: Configuring Availability of Network Resources and Content
- Module 14: Configuring Server Security Compliance

**Duration**

6 days

**Venue**

Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
Introduction to Programming Microsoft® .NET Applications with Microsoft Visual Studio

C7

Course INTRODUCTION:
This course enables introductory-level developers who are not familiar with the Microsoft (.NET Framework or Microsoft Visual Studio) to gain familiarity with the Visual Studio development environment.

COURSE PREREQUISITE:
Exposure to developing applications in either a graphical or a non-graphical environment. 2667 Introduction to Programming

COURSE CONTENTS
Getting Started
Creating a Simple Windows Forms Application
Programming Fundamentals
Data Types and Variables
Controlling Program Execution
Fundamentals of Object-Oriented Programming
Creating Object-Oriented Applications
Building a User Interface
Validating User Input
Debugging and Exception Handling
Accessing Data
Creating Web Applications and XML Web Services
Exploring .NET Framework 3.0 Technologies
Testing and Deploying Microsoft .NET Framework Applications

Duration
6 days

Venue
Baghdad , Amman , Beirut , Cairo, Istanbul, or any place suitable for client.
Writing Queries Using
Microsoft SQL Server 2008 Transact-SQL
C8

Course INTRODUCTION:
This course provides students with the technical skills required to write basic Transact-SQL queries for Microsoft SQL Server 2008.

Course PREREQUISITES:
Relational database design skills

COURSE CONTENTS
Getting Started with Databases and Transact-SQL in SQL Server 2008
Querying and Filtering Data
Grouping and Summarizing Data
Joining Data from Multiple Tables
Working with Subqueries
Modifying Data in Tables
Querying Metadata, XML, and Full-Text Indexes
Using Programming Objects for Data Retrieval
Using Advanced Querying Techniques

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
Implementing a Microsoft SQL Server 2008 Database
C9

Course INTRODUCTION:
This course provides students with the knowledge and skills to implement a Microsoft SQL Server 2008 database. The course focuses on teaching individuals how to use SQL Server 2008 product features and tools related to implementing a database.

COURSE PREREQUISITE:
Basic knowledge of the Microsoft Windows operating system and its core functionality

COURSE CONTENTS
Creating Databases and Database Files
Creating Data Types and Tables
Creating and Tuning Indexes
Implementing Data Integrity by Using Constraints and Triggers
Using XML
Implementing Views
Implementing Stored Procedures
Implementing Functions
Implementing Managed Code in the Database
Managing Transactions and Locks
Using Service Broker

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
**Course** INTRODUCTION:

This course focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small branch office Enterprise network, including configuring a switch, a router, and connecting to a WAN and implementing network security.

**COURSE CONTENTS**

- Building a Simple Network
- Ethernet Local Area Networks
- Wireless Local Area Networks
- Local Area Network Connections
- Wide Area Networks Connections
- Network Environment Management

**Duration**
6 days

**Venue**
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
ICND2 (Interconnecting Cisco Networking Devices Part 2)

C11

Course INTRODUCTION:

This course focuses on skills and knowledge necessary to install, operate, and troubleshoot a small to medium-size branch office Enterprise network, including configuring several switches and routers, connecting to a WAN and implementing network security.

COURSE CONTENTS

- Small Network Implementation
- Medium-Sized Switched Network Construction
- Medium-Sized Routed Network Construction
- Single Area OSPF Implementation
- EIGRP Implementation
- Access Control Lists
- Address Space Management
- LAN Extension in a WAN

Duration

6 days

Venue

Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
CCNA Security
Implementing Cisco® IOS Network Security (IINS)
C12

Course INTRODUCTION:

Students will focus on comprehensive security policies and how they affect networks, and perform tasks to secure the office network using Cisco IOS security features through web-based GUIs and the command-line interface on the Cisco routers and switches.

Course PREREQUISITES:

CCNA
This course is designed for students that have knowledge and skills equivalent to those learned in Interconnecting Cisco Networking Devices Part 1 (ICND1), Interconnecting Cisco Networking Devices Part 2 (ICND2), working knowledge of the Windows Operating System, and knowledge of Cisco IOS networking and concepts.

COURSE CONTENTS

Introduction to Network Security Principles
Perimeter Security
Network Security Using Cisco IOS Firewalls
Site-to-Site VPNs
Network Security Using Cisco IOS IPS
LAN, SAN, Voice, and Endpoint Security Overview

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
CCNA Voice
Introducing Cisco Voice and Unified Communications Administration (ICOMM)
C13

Course INTRODUCTION:
Introducing Cisco Voice and Unified Communications Administration (ICOMM) v8.0 teaches learners how to maintain and operate a Cisco Unified Communications solution that is based on Cisco Unified Communications Manager, Cisco Unified Communications Manager Express, Cisco Unity Connection, and Cisco Unified Presence. This course provides the learners with the knowledge and skills to achieve associate-level competency in Cisco Unified Communications. This course introduces the architecture, components, functionalities, and features of Cisco Unified Communications solutions and describes how daily job tasks, such as system monitoring, moves, adds, and changes are performed on Cisco Unified Communications Manager, Cisco Unified Communications Manager Express, Cisco Unity Connection, and Cisco Unified Presence.

Course PREREQUISITES:
The knowledge and skills that a learner must have before attending this course are as follows:
- Working knowledge of converged voice and data networks
- Basic knowledge of Cisco IOS gateways
- Basic knowledge of Cisco Unified Communications Manager and Cisco Unity Connection

COURSE CONTENTS
Course Introduction
Overview of Cisco Unified Communications Solutions
Overview of Administrator and End-User Interfaces
Call Flows in Cisco Unified Communications Manager and Cisco Unified Communications Manager Express
Endpoint and End User Administration
Enablement of End User Telephony and Mobility Features
Enablement of Cisco Unity Connection and Cisco Unified Presence
Cisco Unified Communications Solutions Maintenance

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
CCNA Wireless
Implementing Cisco® Unified Wireless Networking Essentials (IUWNE)
C14

Course Introduction:
This course provides students with information and practice activities to prepare them to help design, install, configure, monitor and conduct basic troubleshooting tasks of a Cisco WLAN in SMB and Enterprise installations.

Course Prerequisites:
This course is designed for students that have knowledge and skills equivalent to those learned in Interconnecting Cisco Networking Devices (ICND) Part 1 and Part 2. It is also recommended that students have a basic knowledge of Cisco Lifecycle Services, SONA, Wireless standards (EEE), Wireless regulator environment (FCC, ETSI, and so on) and Wireless certification organization (Wi-Fi Alliance).

Course Contents
Wireless Fundamentals
Basic Cisco WLAN Installation
Wireless Clients
WLAN Security
Cisco WCS Administration
WLAN Maintenance and Troubleshooting

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
CCNP
Implementing Cisco IP Routing
C15

Course INTRODUCTION:
Implementing Cisco IP Routing (ROUTE) v1.0 is an instructor-led training course presented by Cisco training partners to their end customers. This five-day course is designed to help students prepare for Cisco CCNP® certification. The ROUTE course is a component of the CCNP curriculum. The ROUTE course is designed for network engineers with at least one year of professional work experience, who are ready to advance their skills and work independently on complex network solutions. Students will learn to plan, configure and verify the implementation of secure enterprise LAN and WAN routing solutions using a range of routing protocols. Course also covers configuration of solutions to support branch offices and mobile workers.

Course PREREQUISITES:
CCNA

COURSE CONTENTS

Module 0: Course Overview
Module 1: Planning Routing Services
Module 2: Implementing an EIGRP based Solution
Module 3: Implementing a Scalable Multiarea Network OSPF based Solution
Module 4: Implement an IPv4 based redistribution solution
Module 5: Implement Path Control
Module 6: Connecting an Enterprise Network to ISP Networks

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
Implementing Cisco Switched Networks

**Course Introduction:**
Implementing Cisco Switched Networks (SWITCH) v1.0 is a five-day instructor-led training course, designed to help students prepare to plan, configure, and verify the implementation of complex enterprise switching solutions for campus environments using the Cisco Enterprise Campus Architecture. These skills are validated in the Cisco CCNP® Routing and Switching certification, a professional-level certification specializing in the routing and switching field. This course is a component of the Cisco CCNP Routing and Switching curriculum. This course is designed to give students a firm understanding of how to manage switches in an enterprise campus environment. This training class reinforces the instruction by providing students with hands-on labs.

**Course Prerequisites:**
CCNA

**Course Contents**
- Module 0: Course Overview
- Module 1: Analyzing Campus Network Designs
- Module 2: Implementing VLANs in Campus Networks
- Module 3: Implementing Spanning Tree
- Module 4: Implementing Inter-VLAN Routing
- Module 5: Implementing First Hop Redundancy in a Campus Environment
- Module 6: Implementing a Highly Available Network
- Module 7: Minimizing Service Loss and Data Theft in a Campus Network
- Module 8: Integrating Wireless LANs into a Campus Network
- Module 9: Accommodating Voice and Video in Campus Networks

**Duration**
6 days

**Venue**
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.

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Troubleshooting and Maintaining Cisco IP Networks

C17

Course Introduction:

Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) v1.0 is an instructor-led training course that is presented by Cisco training partners to customers who use Cisco products. This five-day course is designed to help network professionals improve the skills and knowledge that they need to maintain their network and to diagnose and resolve network problems quickly and effectively. It also assists the network professional in preparing for Cisco CCNP® certification. This course is a component of the CCNP curriculum.

The course is designed to teach professionals who work in complex network environments the skills that they need to maintain their networks and to diagnose and resolve network problems quickly and effectively. The course will provide information about troubleshooting and maintaining particular technologies, as well as procedural and organizational aspects of the troubleshooting and maintenance process.

Course Contents

Module 0: Curriculum Overview
Module 1: Planning Maintenance for Complex Networks
Module 2: Selecting Maintenance and Troubleshooting Tools and Applications
Module 3: Planning Troubleshooting Processes for Complex Enterprise Networks
Module 4: Maintaining and Troubleshooting Campus Switching-Based Problems
Module 5: Maintaining and Troubleshooting Routing Based Solutions
Module 6: Maintaining and Troubleshooting Network Security Solutions
Module 7: Maintaining and Troubleshooting Integrated, Complex Enterprise Networks

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
Implementing Cisco® Unified Communications Manager, Part 1 v8.0 (CIPT1)  

C18

Course INTRODUCTION:
Students will perform post-installation tasks, configure Cisco Unified Communications Manager, implement Media Gateway Control Protocol (MGCP) and H.323 gateways, and build dial plans to place on-net and off-net phone calls.

Course PREREQUISITES:
CCNA, ICOMM
The knowledge and skills that a learner must have before attending this course are as follows: • Working knowledge of fundamental terms and concepts of computer networking including LANs. • WANs, and IP switching and routing. • Ability to configure and operate Cisco routers and switches and to enable VLANs and DHCP. • Basics of digital interfaces, PSTN, and VoIP. • Fundamental knowledge of converged voice and data networks. • Ability to configure Cisco IOS gateways with traditional and VoIP call legs.

COURSE CONTENTS
Introduction to Cisco Unified Communications Manager
Administering Cisco Unified Communications Manager
Enabling Single-Site On-Net Calling
Single-Site Off-Net Calling
Media Resources
Feature and Application Implementation

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
Implementing Cisco® Unified Communications Manager, Part 2 v8.0 (CIPT2)
C19

Course INTRODUCTION:
Students will apply a dial plan for a multisite environment including TEHO, configure survivability for remote sites during WAN failure and implement solutions to reduce bandwidth requirements in the IP WAN.

Course PREREQUISITES:
CCNA, ICOMM
The knowledge and skills that a learner must have before attending this course are as follows: • Working knowledge of converged voice and data networks. • Working knowledge of the MGCP, SIP, and H.323 protocols and their implementation on Cisco IOS gateways. • Ability to configure and operate Cisco routers and switches. • Ability to configure and operate Cisco Unified Communications Manager in a single-site environment.

COURSE CONTENTS
Multisite Deployment Implementation
Centralized Call-Processing Redundancy Implementation
Bandwidth Management and CAC Implementation
Implementation of Features and Applications for Multisite Deployments
CCD

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
Cisco® Voice over IP (CVOICE 6.0)

C20

Course INTRODUCTION:

This course provides an understanding of converged voice and data networks and the challenges faced by the various network technologies. Students receive knowledge and skills required to integrate gateways and gatekeepers into an enterprise VoIP network.

Course PREREQUISITES:

CCNA,
Working knowledge of fundamental terms and concepts of computer networking to include LANs, WANs, and IP switching and routing. - Basic internetworking skills taught in Interconnecting Cisco Network Devices (ICND), or equivalent knowledge. - Ability to configure and operate Cisco routers and switches and to enable VLANs and DHCP. - Knowledge of traditional public switched telephone network (PSTN) operations and technologies.

Course CONTENTS

Introduction to VoIP
Voice Part Configuration
VoIP Gateway Implementation
Dial Plan Implementation on Voice Gateways
H.323 Gatekeepers
ITSP Connectivity

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
Implementing Cisco® Quality of Service (QoS)  
C21

Course INTRODUCTION:  
This course provides students with knowledge of IP QoS requirements, conceptual models using Differentiated Services (DiffServ), Integrated Services (IntServ) and Best Effort (over provisioning), and the implementation of IP QoS on Cisco IOS switches.

Course PREREQUISITES:  
CCNA,  
Completion of Interconnecting Cisco Networking Devices (ICND) or Cisco Certified Networking Associate (CCNA). The Configuring BGP on Cisco Routers course (BGP) or equivalent is recommended because some BGP background is assumed for the QoS course.

Course CONTENTS  
Introduction to QoS  
The Building Blocks of QoS  
Introduction to Modular QoS CLI and AutoQoS  
Classification and Marking  
Congestion Management  
Congestion Avoidance  
Traffic Policing and Shaping  
Link Efficiency Mechanisms  
QoS Best Practices

Duration  
6 days

Venue  
Baghdad , Amman , Beirut , Cairo, Istanbul, or any place suitable for client .
Developing Microsoft .NET Applications for Windows (Visual Basic.NET)

**C22**

**COURSE CONTENTS**

Lesson 1: Introducing Windows Forms  
Lesson 2: Working With Controls  
Lesson 3: Building Controls  
Lesson 4: Using Data in Windows Forms Applications  
Lesson 5: Interoperating with COM Objects  
Lesson 6: Reporting and Printing in Windows Forms Applications  
Lesson 7: Asynchronous Programming  
Lesson 8: Enhancing the Usability of Applications  
Lesson 9: Deploying Windows Forms Applications  
Lesson 10: Securing Windows Forms Application

**Duration**  
6 days

**Venue**  
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.
Visual Studio 2008: ASP.NET 3.5

C23

who should attended:
This course is intended for application developers who know how to create applications in Visual Studio 2005 or 2008.

Lesson 1: Getting Started with ASP.NET 3.5

Lesson 2: Implementing a User Interface with ASP.NET Server Controls

Lesson 3: Displaying and Manipulating Data in ASP.NET 3.5

Lesson 4: Creating Responsive Pages by Using Client-Side Technologies

Lesson 5: Debugging and Deploying ASP.NET Applications

Lesson 6: Writing ASP.NET Applications for Mobile Devices

Duration
6 days

Venue
Baghdad, Amman, Beirut, Cairo, Istanbul, or any place suitable for client.