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Setup Office/Home IT & Wireless Network Windows Server 2008 Admin & Remote Support (TeamViewer&LogMeIn) & Cloud Computing (IaaS/PaaS/SaaS) (aka IC3 – Living Online)

Course is designed for entry level to IT Networking for Non-Technical personnel

Course Objective:

This course aims to teach from scratch networking theory and network implementation specially designed for Small Office networking environments. At the end of the course candidates will acquire the skill sets to install, configure, and troubleshoot basic networking and wireless networking. Candidates will also learn how to troubleshoot common email & internet connectivity problems. Candidates will learn about potential security threats in the network and internet and how to mitigate against these threats. Candidates will also be introduced to the latest in Cloud Computing, Cloud Services & characteristics about Cloud Computing.

Who Should Attend?:

Individuals who are keen in network and wireless network implementation & troubleshooting. The course is ideal for beginners and user, technicians new to networking.

Certificate Of Attendance:

Certificate Of Attendance will be awarded to students completing the course achieving minimum 75% attendance.

Training Methodology & Materials:

- Practical hands-on sessions to enhance networking concept.
- Well-designed lab sessions to enhance further understanding of the courseware.

Training Duration:

Part-time: 6 sessions
6.30pm-10pm (twice a week)
Full-time: 3 weekdays or 3 Sats
9.30am – 5.30pm

Course Training Fee :

Course Fee : S\$600 including IC3 Living Online Exam
Regn Fee : S\$30
SDF & Absentee Payroll grants available.
All fees subject to GST.

DETAILED COURSE OUTLINE

1.0 Network Media and Topologies

- 1.1 Categorize standard media types and associated properties
- 1.2 Categorize standard connector types based on network media
- 1.3 Compare and contrast different wireless standards
- 1.4 Categorize WAN technology types and properties
- 1.5 Describe different network topologies
- 1.6 Given a scenario, troubleshoot common physical connectivity problems
- 1.7 Compare and contrast different LAN technologies
- 1.8 Identify components of wiring distribution

2.0 Networking Concepts, TCP/IP and Ports

- 2.1 Compare the layers of the OSI and TCP/IP models
- 2.2 Classify how applications, devices, and protocols relate to the OSI model layers
- 2.3 Explain the purpose and properties of IP addressing

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- 2.4 Explain the purpose and properties of routing and switching
- 2.5 Identify common TCP and UDP default ports
- 2.6 Explain the function of common networking protocols
- 2.7 Summarize DNS concepts and its components
- 2.8 Given a scenario, implement the following network troubleshooting methodology
- 2.9 Identify virtual network components

3.0 Network Installation and Configuration

- 3.1 Given a scenario, install and configure routers and switches
- 3.2 Given a scenario, install and configure a wireless network
- 3.3 Explain the purpose and properties of DHCP
- 3.4 Given a scenario, troubleshoot common wireless problems
- 3.5 Given a scenario, troubleshoot common router and switch problems
- 3.6 Given a set of requirements, plan and implement a basic SOHO network

4.0 Understanding Email, Email Settings & Microsoft Outlook Settings

- 4.1 Understanding Email address, Email components like POP3, IMAP, SMTP settings
- 4.2 Outlook as a Email Application
- 4.3 Understanding Outlook Screen
- 4.4 Creating, receiving emails and organizing email folders
- 4.5 Working with Email Attachments
- 4.6 Managing Spams
- 4.7 Identifying Common Email Problems

5.0 Using Internet Browser

- 5.1 Understanding the World Wide Web
- 5.2 Identify Web Pages, Web Site Types and Other Web Page Elements
- 5.3 Working with Address Bar, Favorites, History and other Internet Options
- 5.4 Understanding HTTP, URL and Proxy Settings
- 5.5 Identifying Common Internet Problems
- 5.6 Troubleshooting Internet Connectivity Problems

6.0 Wireless Networking

- 6.1 Wireless Networking Fundamentals and Concepts
- 6.2 Wireless Networking Equipments (Wireless Card, Access Points, etc)
- 6.3 Wireless Networking Terminologies (Eg Service Set, SSID, Infrastructure Network, Ad-hoc networks) and Technologies (802.11 a/b/g/n, etc)
- 6.4 Setting up Wireless Networking using Wireless Card, Access Points
- 6.5 Wireless Networking range, frequency channels and other placement considerations
- 6.6 Security in Wireless Network (WEP/WPA/WPA2/TKIP, etc)
- 6.7 Troubleshooting Wireless Networking Connectivity Problems

7.0 Network Security & Internet Security

- 7.1 Risk of Computing – what is exposed and how to protect your identity and data
- 7.2 Identifying Software Threats
- 7.3 Understanding Threats - Virus, Malware, Spyware, Trojan Horse, Keyloggers, etc.
- 7.4 How to protect against threats
- 7.5 Understanding Online Threats when surfing the Internet
- 7.6 How to protect against Online threats when buying Online, protecting your privacy
- 7.7 Security technologies – encryption, digital certificates, SSL, etc.
- 7.8 Understand security of your network

7.9 Mitigate against security threats in your network.

8.0 Networking Computer and Terminologies Module:

- 8.1 Networking Fundamentals and Concepts
- 8.2 Networking Terminologies
- 8.3 Network Equipments Eg. Switches and routers, UTP cables
- 8.4 Understanding Network Media
- 8.5 Cramping of Network Cables
- 8.6 Setting up Networking using Windows 7 Environment
- 8.7 Setting up of User accounts in Windows 7
- 8.8 Setting up of Groups in Windows 7
- 8.9 Sharing of Files
- 8.10 Sharing of Printers
- 8.11 Share Permissions in Windows 7
- 8.12 Setting of Permissions in Windows 7 Networking

9.0 Windows Server 2008 Administration

- 9.1 Introduction to Windows Server 2008
- 9.2 Understanding Windows Server 2008 terminologies
- 9.3 Understanding Domain, Domain Controller and Users & Groups
- 9.4 Creating & Administering User Accounts & Groups
- 9.5 Sharing Resources: Folders & Printers, etc
- 9.6 Assigning Permissions to Folders & Printers
- 9.7 Setting Up VPN Service in Windows Server

10.0 Network Attached Storage (NAS)

- 10.1 Introduction to RAID and Redundancy
- 10.2 Understanding RAID 0 , 1 & 5.
- 10.3 What is NAS – Network Area Storage
- 10.4 How to Setup NAS in your Office network

11.0 Introduction to Cloud Computing and Cloud Services

- 11.1 Types of Cloud Models .ie Public/Private/Hybrid Cloud etc.
- 11.2 Cloud Services & Characteristics
- 11.3 IaaS (Infrastructure as a Service)
- 11.4 SaaS (Software as a Service)
- 11.5 PaaS (Platform as a Service)

