

PROFESSIONAL TRAINING COURSE

Training
NEXT EXIT →

5 Days Course on
LAN Switching & Wireless
and
Accessing the WAN
(CCNA 3 & 4)



Two Sigma Technologies

Suite B, 19-2, Jalan PGN 1A/1, Pinggiran Batu Caves,

68100 Batu Caves, Selangor

Tel : 03-61880601/Fax :03-61880602

sales@2-sigma.com

www.2-sigma.com



About the Course

This course is designed based on CCNA curriculum. Focus of this course is on two parts:

1) LAN Switching & Wireless (CCNA Part 3)

This course provides a comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design and implement a converged switched network. Students learn about the hierarchical network design model and how to select devices for each layer. The course explains how to configure a switch for basic functionality and how to implement Virtual LANs, VTP, and Inter-VLAN routing in a converged network. The different implementations of Spanning Tree Protocol in a converged network are presented, and students develop the knowledge and skills necessary to implement a WLAN in a small-to-medium network.

2) Accessing the WAN (CCNA Part 4)

This course discusses the WAN technologies and network services required by converged applications in enterprise networks. The course uses the Cisco Network Architecture to introduce integrated network services and explains how to select the appropriate devices and technologies to meet network requirements. Students learn how to implement and configure common data link protocols and how to apply WAN security concepts, principles of traffic, access control, and addressing services. Finally, students learn how to detect, troubleshoot, and correct common enterprise network implementation issues.

LAN Switching and Wireless	Accessing the WAN
LAN Design	Introduction to WANs
Basic Switch Concepts & configuration	PPP
VLANs	Frame Relay
VTP	Network Security
STP	ACLs
Inter-VLAN Routing	Teleworker Services
Basic Wireless Concepts & Config.	IP Addressing Services
	Network Troubleshooting

Prerequisites

Participant should have solid knowledge and skills in network fundamentals and routing protocols and concepts

Course Settings

Venue/Date	Refer to Training Calendar
Timings	0900-1700
Inclusive	Certificates and notes
Course Fees	Contact us at sales@2-sigma.com
Timings	0900-1700 (5 Days)
Audience	IT Officer, Network Designer, Network Administrators

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LAN Switching & Wireless and Accessing the WAN-Schedule

Day 1	
09.00am – 10.00am	LAN Switching and Wireless LAN Design <ul style="list-style-type: none"> • Chapter Introduction • Switched LAN Architecture • Matching Switches to Specific LAN Functions
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	Basic Switch Concepts and Configuration <ul style="list-style-type: none"> • Chapter Introduction • Introduction to Ethernet/802.3 LANs • Forwarding Frames Using a Switch • Switch Management Configuration • Configuring Switch Security • Chapter Labs • Chapter Summary • Chapter Quiz
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	VLANs <ul style="list-style-type: none"> • Chapter Introduction • Introducing VLAN • VLAN Trunking • Configure VLANs and Trunks • Troubleshooting VLANs and Trunks • Chapter Labs • Chapter Summary • Chapter Quiz
Day 2	
09.00am – 10.00am	VTP <ul style="list-style-type: none"> • Chapter Introduction • VTP Concepts • VTP Operation • Configure VTP • Chapter Labs • Chapter Summary • Chapter Quiz
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	STP <ul style="list-style-type: none"> • Chapter Introduction • Redundant Layer 2 Topologies • Introduction to STP • STP Convergence • PVST+, RSTP, and Rapid PVST+

	<ul style="list-style-type: none"> • Chapter Labs • Chapter Summary • Chapter Quiz
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	Inter-VLAN Routing <ul style="list-style-type: none"> • Chapter Introduction • Inter-VLAN Routing • Configuring Inter-VLAN Routing • Troubleshooting Inter-VLAN Routing • Chapter Labs • Chapter Summary • Chapter Quiz
Day 3	
09.00am – 10.00am	Basic Wireless Concepts and Configuration <ul style="list-style-type: none"> • Chapter Introduction • The Wireless LAN • Wireless LAN Security • Configure Wireless LAN Access • Troubleshooting Simple WLAN Problems • Chapter Labs • Chapter Summary • Chapter Quiz
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	Accessing the WAN Introduction to WANs <ul style="list-style-type: none"> • Chapter Introduction • Providing Integrated Services to the Enterprise • WAN Technology Concepts • WAN Connection Options • Chapter Labs • Chapter Summary • Chapter Quiz
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	PPP <ul style="list-style-type: none"> • Chapter Introduction • Serial Point-to-Point Links • PPP Concepts • Configuring PPP • Configuring PPP with Authentication • Chapter Labs • Chapter Summary • Chapter Quiz

Day 4	
09.00am – 10.00am	Frame Relay <ul style="list-style-type: none"> • Chapter Introduction • Basic Frame Relay Concepts • Configuring Frame Relay • Advanced Frame Relay Concepts • Configuring Advanced Frame Relay • Chapter Labs • Chapter Summary • Chapter Quiz
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	Network Security <ul style="list-style-type: none"> • Chapter Introduction • Introduction to Network Security • Securing Cisco Routers • Secure Router Network Services • Using Cisco SDM • Secure Router Management • Chapter Labs • Chapter Summary • Chapter Quiz
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	ACLs <ul style="list-style-type: none"> • Chapter Introduction • Using ACLs to Secure Networks • Configuring Standard ACLs • Configuring Extended ACLs • Configuring Complex ACLs • Chapter Labs • Chapter Summary • Chapter Quiz
Day 5	
09.00am – 10.00am	Teleworker Services <ul style="list-style-type: none"> • Chapter Introduction • Business Requirements for Teleworker Services • Broadband Services • VPN Technology • Chapter Summary • Chapter Quiz
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	IP Addressing Services <ul style="list-style-type: none"> • Chapter Introduction • DHCP



	<ul style="list-style-type: none">• Scaling Networks with NAT• IPv6• Chapter Labs• Chapter Summary• Chapter Quiz
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	Network Troubleshooting <ul style="list-style-type: none">• Chapter Introduction• Establishing the Network Performance Baseline• Troubleshooting Methodologies and Tools• Common WAN Implementation Issues• Network Troubleshooting• Chapter Labs• Chapter Summary• Chapter Quiz

More Information

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To register, please email to sales@2-sigma.com or fax the registration form to 03-61880602, we will contact you for further action.

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