

CCNA

Course Title:	CCNA	
Duration:	5 Days	
Timings:	9:00 am to 5:00 pm (UTC +5 / Pakistan Standard Time)	
No. of Students:	25 students per batch	
Pre-requisites:	Fundamentals of Information Technology and Computer Sciences	
Mode of Training:	<ol style="list-style-type: none"> 1 CORVIT Campuses in Lahore, Karachi & Islamabad 2 Online (if required) 	
Language:	<ol style="list-style-type: none"> 1 Training will be delivered in Urdu & English (optional) language 2 Training material will be provided in English language 	
Training Basic Methodology:	<ol style="list-style-type: none"> 1. Theoretical knowledge 2. Lab work 3. Individual Assignments 4. Group Assignments 5. Assessments 6. Certification Preparation (where applicable) 	
Training Material:	Soft copy (pdf format) of training material will provide to all students.	
Training Content:	Day 1:	<ol style="list-style-type: none"> 1. Identify the components of a computer network and describe their basic characteristics. 2. Understand the OSI Reference Model 3. Describe the TCP/IP Transport layer and Application layer. 4. Describe LANs and the role of switches within LANs. 5. Describe Ethernet as the network access layer of TCP/IP and describe the operation of switches. 6. Describe the TCP/IP Internet layer, IPv4 addressing scheme, and subnetting. 7. Describe IPv6 main features and addresses. 8. Describe the TCP/IP Transport layer and Application layer

	Day 2:	<ol style="list-style-type: none"> 1. Explore functions of Routers. 2. Implement basic configuration on a Cisco router. 3. Explain host-to-host communications across switches and routers. 4. Identify and resolve common switched network issues and common problems associated with IPv4 addressing. 5. Describe IPv6 main features and addresses and configure and verify basic IPv6 connectivity. 6. Get Started with Cisco Command-Line Interface (CLI) 7. Observe How a Switch Operates 8. Perform Basic Switch Configuration 9. Implement the Initial Switch Configuration 10. Implement an Initial Router Configuration 11. Configure an Interface on a Cisco Router 12. Secure Console and Remote Access 13. Enable and Limit Remote Access Connectivity
	Day 3:	<ol style="list-style-type: none"> 1. Configure basic IOS system monitoring tools. 2. Describe the management of Cisco devices. 3. Implement a basic security configuration of the device management plane. 4. Implement basic steps to harden network devices. 5. Configure and Verify NTP 6. Configure System Message Logging 7. Create the Cisco IOS Image Backup 8. Upgrade Cisco IOS Image
	Day 4:	<ol style="list-style-type: none"> 1. Explain how Spanning Tree Protocol (STP) and Rapid Spanning Tree Protocol (RSTP) work 2. Describe, implement, and verify Virtual Local Area Networks (VLANs) and trunks 3. Configure link aggregation using EtherChannel. 4. Describe the application and configuration of inter-VLAN routing. 5. Configure VLAN and Trunk 6. Implement Multiple VLANs and Basic Routing Between the VLANs 7. Describe the concepts of wireless networks, which types of wireless networks can be built, and how to use WLC 8. Configure a Dynamic (VLAN) Interface 9. Configure a WLAN. 10. Explore Management Options
	Day 5:	<ol style="list-style-type: none"> 1. Describe the operation, benefits, and limitations of static routing. 2. Explain the basics of dynamic routing protocols and describe components and terms of Open Shortest Path First (OSPF) 3. Describe the purpose of Layer 3 redundancy protocols. 4. Configure Basic IPv6 Connectivity 5. Configure and Verify IPv4 Static Routes

		<ol style="list-style-type: none">6. Configure IPv6 Static Routes7. Implement IPv4 Static Routing8. Implement IPv6 Static Routing9. Configure and Verify Single-Area OSPF10. Describe the operation of Access Control Lists (ACLs) and their applications in the network.11. Configure Internet access using Dynamic Host Configuration Protocol (DHCP) clients and explain and configure Network Address Translation (NAT) on Cisco routers
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