


Course Name	Cisco Certified Technician Routing and Switching (100-490 RSTECH) Certification Training	
About the Course	The Cisco Certified Technician Supporting Cisco Routing and Switching Network Devices (RSTECH) v3.0 course focuses on the skills required for onsite support and maintenance of Cisco routers, switches, and operating environments. This course will help Field Engineers identify Cisco router and switch models, accessories, cabling, and interfaces; understand the Cisco IOS software operating modes and identify commonly found software. The engineer will also be able to use the CLI to connect and service products. This course helps you prepare for the Cisco Certified Technician Routing and Switching (100-490 RSTECH) exam.	
Key Skills You Will Learn	Use basic Cisco software configuration and tools: Tera Term, Putty, TFTP server, FTP server, USB Storage, loopback plug, and Microsoft Windows, Understand network fundamentals, Cisco products, and hardware components, Perform remedial services (hardware break/fix) on Cisco products including software and configuration backup and restore, software upgrade/downgrade, Recognize connection type and cable requirement, Perform basic Layer 1 and basic Layer 2 troubleshooting	
Course Pre-Requisite	None	
Target Audience	This CCT Routing & Switching training is considered professional-level Cisco training, which means it was designed for network technicians with 1 to 3 years of experience -- or no experience at all. This CCT Routing & Switching course is valuable for new or aspiring IT professionals, experienced network technicians looking to validate foundational skills, and non-technical professionals	
Job prospects with this role	A Cisco Certified Technician (CCT) Routing and Switching course can lead to entry-level IT careers, such as: Cisco Certified Technician (CCT) and Cisco Technical Assistant (CTA)	
Course Duration	~ 17 Hrs	
Course Customisation	Not applicable	
Certification	READYBELL CCT (Cisco Certified Technician) Routing & Switching Certificate	
Mode of Training	Instructor-led 100% Online or 100% Classroom (Salt Lake, Kolkata - India) or hybrid mode (Online + Classroom) as suitable for the learner	
Course Fees	Please contact us	
Refund Policy	Get a 3-hours free trial during which you can cancel at no penalty. After that, we don't give refunds	
Job Assistance	Will assist candidate in securing a suitable job	
Contact	READYBELL SOFTWARE SERVICES PVT. LIMITED AH 12, SALT LAKE SECTOR 2, KOLKATA (INDIA) - 700 091 E-MAIL: contact@readybellsoftware.com PH: +91 - 9147708045/9674552097, +91 - 33-79642872	 Software Services Pvt. Ltd.

CURRICULUM		
Topic	Sub-Topic	Duration (Hrs)
Cisco Certified Technician Routing and Switching (100- 490 RSTECH) Certification Training	Module 1: Defining Data Flows in an IP Network	17 Hrs
	Overview	
	Intro to Data Flows in an IP Network	
	Overview of Data Flows in an IP Network	
	OSI Reference Model	
	TCP/IP Protocol Stack	
	Common Application Layer Services	
	Common Transport Layer (L4) Protocols	
	Network Layer (L3)	
	Data-Link Layer (L2)	
	Module 2: Recognize the Function of LAN/WAN Devices	
	Overview	
	Intro to Functions of LAN & WAN Devices	
	Overview of LAN & WAN Devices	
	Switch, Router, and Wireless Hardware	
	LAN Cabling	
	Layer 2 LAN Switches	
	Layer 3 IP Routers	
	Dynamic Routing Protocols	
	Firewalls	
	Module 3: Describe TCP/IP Addressing and Protocols	
	Overview	
	Intro to TCP/IP Addressing and Protocols	
	TCP/IP Addressing Overview	
	Public vs Private IP Addresses	
	Subnetting Concepts for IPv4	
	Creating New Subnets	
	Identifying New Subnets and Ranges	
	Implementing New Subnets	
	Module 4: Identify Cisco R&S Products and Use-Cases	
	Overview	
	Intro	
Catalyst Switches		
Nexus Switches		
MDS Switches		
ASRs, ISRs, and Catalyst Routers		
NCS Series		

Module 5: Identify Cisco Catalyst Fixed-Configuration Switches
Overview
Intro
Catalyst 2960 and 1000 Series Switches
Catalyst 3K Series
Catalyst 9200s and 9300s
Catalyst 9500s
Module 6: Identify Cisco Catalyst Chassis Hardware
Overview
Intro
Chassis Switches
Catalyst 4500s
Catalyst 6500s and 6800s
Catalyst 9400s and 9600s
Module 7: Identify Meraki Hardware
Overview
Intro
Meraki Cloud Management
Meraki APs
Meraki Edge Routers
Meraki Switches
Module 8: Identifying Cisco Nexus Hardware
Overview
Intro
Nexus Overview
Nexus 3Ks
Nexus 9200s and 9300s
Nexus 9500s
Module 9: Identify Cisco MDS Hardware
Overview
Intro
Fibre Channel Protocol
Fibre Channel Fabrics
MDS Fabric Switches
MDS Director Switches
Module 10: Identify Cisco Integrated Services Routers (ISRs)
Overview
Intro
ISR 800s, 900s, and 1000s
ISR 4Ks
Catalyst 8Ks

Module 11: Identify Cisco Aggregation Services Routers (ASRs)
Overview
Intro
Aggregation Services Routers
ASR 1Ks and Catalyst 8500s
ASR 1K Architecture
ASR 9Ks
Module 12: Identify Cisco Transceivers and Cabling
Overview
Intro
SFP Technology
QSFP Technology
Fiber Cabling
Module 13: Identify Cisco Transceiver Products
Overview
Intro
1G and 10G Transceiver Options
25G Transceiver Options
40G and 100G Transceiver Options
200G and 400G Transceiver Options
Module 14: Identify Cisco Serial and Product Numbers
Overview
Intro
Serial Numbers
Catalyst Product Numbers
Nexus Product Numbers
Module 15: Identify Cisco Hardware Characteristics
Overview
Intro
Device Memory and Storage
Device Loading Process
Data and Management Ports
Console and AUX Ports
Module 16: Perform Cisco Hardware Installations
Overview
Intro
RJ-45 Port and Cabling Types
Auto-MDIX, Rollovers, and Loopbacks

	Module 17: Describe Cisco IOS and NX-OS	
	Overview	
	Intro	
	Cisco IOS, IOS-XE, and IOS-XR	
	Configuration Hierarchical Model	
	Cisco NX-OS	
	IOS-XE Configuration Demo	
	Module 18: Connect to and Configure Cisco Devices	
	Overview	
	Intro to Connecting to and Configuring a Cisco Device	
	Overview of Connecting and Configuring Cisco Devices	
	Local Admin Computer Essentials	
	Password Recovery	
	Setup Network Based Management	
	Common Interface Problems	
	Module 19: Manage Cisco IOS-XE Devices	
	Overview	
	Intro	
	File Management	
	Configuration Register	
	Platform Licensing	
	Bundle and Install Modes	
To register for this course please e-mail/call us		