

Course Name	Cisco Advanced Routing		
About the Course	This course will teach you how to configure and troubleshoot routing protocols and IP services using a large-scale network topology		
Key Skills You Will Learn	In Cisco Advanced Routing training you'll learn to design, configure, and manage a small Internet Service Provider (ISP), which in many ways resembles a large enterprise. First, you'll explore OSPF, a complex and popular routing protocol common deployed in enterprises and service providers alike. Next, you'll apply BGP both for upstream Internet connectivity and MPLS layer-3 VPN service, which large enterprises commonly use to provide multi-tenancy at scale. Finally, you'll learn how to optimize the network using a subset of common IP services relating to management, monitoring, and security. Most of these topics are discussed using both IPv4 and IPv6 in the context of dual-stacking		
Course Pre-Requisite	Prerequisites for this course include: The Cisco Enterprise Core learning path		
Target Audience	This course is for IT professionals who are looking to create and manage their own Cisco enterprise network.		
Job prospects with	Network engineer, Network administrator, Systems engineer, Network consultant, Network security		
this role	specialist		
Course Duration	~ 14 Hrs		
Course Customisation	Not applicable		
Certification	READYBELL Cisco Advanced Routing 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	No refund		
Job Assistance	Not applicable		
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	Ready Bell Software Services Pvt. Ltd.	

Module 5: Isolating Customers with MPLS Layer-3 VPNs	
How Does MPLS Work?	
Distributing Labels with LDP	
Demo: Basic LDP Configuration and Verification	
Demo: My Tried-and-true Method to Trace MPLS LSPs	
Designing MPLS L3VPN Services	
Scaling iBGP with Route-Reflectors	
Demo: Connecting Provider Edge Routers to the BGP RR	
Demo: Using BGP for PE-CE Routing Towards Customers	
Demo: Tracing the Bidirectional Customer MPLS LSPs	
Detour: Configuring BGP with VRF Lite	
Module 6: Achieving High Availability for Customers and LAN Clients	
A Refresher on First-hop Redundancy Protocols (FHRPs)	
Demo: Using Hot Standby Router Protocol (HSRP) on the NOC LAN	
Synthesizing Traffic with IP Service Level Agreement (IP SLA)	
Demo: Configuring IP SLA To Measure Link Performance	
Demo: Using Tracked Objects to Influence HSRP	
Demo: Injecting a Performance-based OSPF Default Route	
Module 7: Deploying IP Services to Manage and Secure the Network	
How SNMP Works and Why It's Everywhere	
Demo: SNMPv2c Configuration and Validation	
Demo: Secure Device Management with SNMPv3	
TACACS+; A Powerful Alternative to RADIUS	
Controlling VTY Access using TACACS+	
Configuring FNF in Three Easy Steps	
Protecting MPLS PEs using Control-plane Policing (CPP)	
Module8: Modernizing Networks Using IPv6	
IPv6 Refresher and Common Operations	
Demo: Basic OSPFv3 Configuration using IPv6	
Demo: Validating IPv6 Internet Uplinks using BGP	
Demo: Validating IPv6 HSRP and Object Tracking	
Demo: Validating MPLS L3VPN for IPv6 Customers	

To register for this course please e-mail/call us