

# Cisco Routing and Switching Certification Comparison Chart



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Certification Name	Years of Related Experience	Job Role	Product / Technology covered in the course	Number of Exams	Prerequisites
<b>CCENT</b>	0 - 2	<ul style="list-style-type: none"> <li>• Entry-level Network Engineers</li> <li>• Help Desks</li> <li>• Network Administrators</li> </ul>	<p>Hardware:</p> <ul style="list-style-type: none"> <li>• Cisco Routers</li> <li>• Cisco Switches</li> </ul> <p>Software:</p> <ul style="list-style-type: none"> <li>• Cisco IOS</li> <li>• IPv6</li> <li>• OSPF</li> <li>• VLANs</li> <li>• ACLs</li> <li>• WLAN, LAN and WAN</li> </ul>	1	None
<b>CCNA Routing and Switching</b>	1-3	<ul style="list-style-type: none"> <li>• Network Specialists</li> <li>• Network Administrators</li> <li>• Network Support Engineers</li> </ul>	<p>Hardware:</p> <ul style="list-style-type: none"> <li>• Cisco Routers</li> <li>• Cisco Switches</li> </ul> <p>Software:</p> <ul style="list-style-type: none"> <li>• Cisco IOS</li> <li>• IPv6</li> <li>• IOS Licensing</li> <li>• OSPF</li> <li>• VLANs</li> <li>• ACLs</li> <li>• Etherchannel</li> <li>• EIGRP</li> <li>• SNMP</li> <li>• Netflow</li> <li>• WLAN, LAN and WAN</li> </ul>	2	None
<b>CCNP Routing and Switching</b>	3-5	<ul style="list-style-type: none"> <li>• Network Engineers</li> <li>• System Engineers</li> <li>• Network Support Specialists</li> <li>• Network Administrators</li> <li>• Network Consultants</li> <li>• System Integrators</li> </ul>	<p>Hardware:</p> <ul style="list-style-type: none"> <li>• Cisco Routers</li> <li>• Cisco Switches</li> </ul> <p>Software:</p> <ul style="list-style-type: none"> <li>• Cisco IOS</li> <li>• eBGP</li> <li>• EIGRP (IPv6)</li> <li>• OSPF v3</li> <li>• QoS</li> <li>• Layer 2</li> <li>• IPv4</li> <li>• Layer 3</li> <li>• IPv6</li> <li>• RIP v2 and RIP ng</li> <li>• Advanced IP Addressing and Routing</li> </ul>	3	Valid CCNA Routing and Switching Certification

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CCNP Routing and Switching Cont.			<ul style="list-style-type: none"> <li>WLAN, LAN and WAN</li> <li>Configuration of secure routing Solutions</li> <li>DMVPN (Dynamic Multipoint VPN)</li> <li>Cisco StackWise</li> <li>VSS (Virtual Switch Services)</li> </ul>		
CCIE Routing and Switching	7+	<ul style="list-style-type: none"> <li>Senior Network Engineers</li> </ul>	<p>Hardware:</p> <ul style="list-style-type: none"> <li>Cisco Routers</li> <li>Cisco Switches</li> </ul> <p>Software:</p> <ul style="list-style-type: none"> <li>Cisco IOS</li> <li>eBGP</li> <li>EIGRP</li> <li>OSPF</li> <li>QoS</li> <li>Layer 2</li> <li>IPv4</li> <li>Layer 3</li> <li>IPv6</li> <li>MPLS</li> <li>Multicast</li> <li>HSRP</li> <li>VRRP</li> <li>NTP</li> <li>DHCP</li> <li>Advanced IP Addressing and Routing</li> <li>WLAN, LAN and WAN</li> <li>Configuration of secure routing Solutions</li> <li>Troubleshoot and optimize network and evaluate proposed changes</li> </ul>	2	None