



# CCNP Routing and Switching v2.0

## Key Changes to Certification Topics

August 2014

# Overview

- The purpose for this document is to provide an overview of key differences between the 642-series exams and the new 300-series CCNP Routing and Switching exam topics.
- For comprehensive information on the CCNP Routing and Switching Exam Topic changes, visit the following exam pages.

642-Series Exams	300-Series Exams
<a href="#"><u>642-902 ROUTE</u></a>	<a href="#"><u>300-101 ROUTE</u></a>
<a href="#"><u>642-813 SWITCH</u></a>	<a href="#"><u>300-115 SWITCH</u></a>
<a href="#"><u>642-832 TSHOOT</u></a>	<a href="#"><u>300-135 TSHOOT</u></a>

- Please note that with the 300-series curriculum, the IOS release and feature focus has moved from IOS v12 to IOS v15 which is what is currently shipping.

# ROUTE Exam Topics – Key Changes

All major routing topics from the 642-902 exam were kept in the new 300-101 exam.

## Key additions include:

Network Principles Domain	You should be able to identify Cisco Express Forwarding (CEF) concepts, explain TCP operations, and describe UDP operations
RIP (v2 and ng) Domain	You should be able to describe RIPng (RIP next generation)
EIGRP (IPv6) Domain	You should be able to configure and verify each of the following; EIGRP Stubs, load-balancing, and EIGRP for IPv6
OSPFv3 Domain	You should be able to configure and verify OSPF for IPv6
VPN Technologies Domain	You should be able to describe DMVPN (single hub) and Easy Virtual Networking (EVN)
Infrastructure Services Domain	You should be able to describe IPv6 Network Address Translation

# SWITCH Exam Topics – Key Changes

Removed topics on how to configure VACL and PACL along with references to implementing Wireless, VoIP, and Video solutions as these are now covered in their respective certification tracks.

## Key additions include:

Configure and Verify Switch Administration Domain	You should be able to configure and verify SDM templates
Configure and Verify Trunking Domain	You should be able to configure and verify VTPv1, VTPv2, VTPv3, VTP Pruning
Configure and Verify other LAN Switching Technologies Domain	You should be able to configure and verify SPAN and RSPAN
Describe Chassis Virtualization and Aggregation Technologies Domain	You should be able to describe Stackwise

# TSHOOT Exam Topics – Key Changes

Removed topics on troubleshooting VACL and PACL along with references to troubleshooting Wireless, VoIP, and Video solutions as these are now covered in their respective certification tracks.

## Key additions include:

EIGRP (IPv6) Domain	You should be able to troubleshoot each of the following; EIGRP Stubs, load-balancing, and EIGRP for IPv6
OSPFv3 Domain	You should be able to troubleshoot OSPF for IPv6
Troubleshoot Switch Administration Domain	You should be able to troubleshoot SDM templates
Troubleshoot Trunking Domain	You should be able to troubleshoot VTPv1, VTPv2, VTPv3, VTP Pruning
Troubleshoot other LAN Switching Technologies Domain	You should be able to troubleshoot SPAN and RSPAN
Troubleshoot Chassis Virtualization and Aggregation Technologies Domain	You should be able to troubleshoot Stackwise