



GlobalNet Training & Consulting, Inc.

The exclusive home of official Todd Lammle Cisco authorized training

CCNP® Boot Camp Course Outline

Week 1:

Sunday	Hotel Check-In After 3:00pm CST
Monday	Classroom - ROUTE 642-902
Tuesday	Classroom - ROUTE 642-902
Wednesday	Classroom - ROUTE 642-902
Thursday	Classroom - ROUTE 642-902
Friday	Testing - ROUTE 642-902 / Classroom SWITCH 642-813
Saturday	Classroom SWITCH 642-813

Week 2:

Sunday	Classroom SWITCH 642-813
Monday	Classroom SWITCH 642-813
Tuesday	Classroom SWITCH 642-813
Wednesday	Testing SWITCH 642-813/ Classroom TSHOOT 642-832
Thursday	Classroom TSHOOT 642-832
Friday	Classroom/Testing - TSHOOT 642-832 Class is concluded by 2:00pm CST



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Week 1 – Routing and Troubleshooting Routed Networks

Monday:

Describe IPv6 addressing operations.

Describe IPv6 interoperation with IPv4.

Design a hierarchical IPv4 addressing scheme using VLSM and route summarization

Configure and verify RIPv2 operations

Describe, configure or verify route filtering (i.e., distribute-lists and passive interfaces).

Describe and configure DHCP services (e.g., Server, Client, IP helper address, etc.).

Describe IP Multicast (e.g., Layer-3 to Layer-2 mapping, IGMP, etc.).

Describe, configure, or verify IP multicast routing (i.e., PIM Sparse-Dense Mode).

Tuesday:

Describe SPF calculation and OSPF operation, features, and benefits

Configure and verify OSPF routing (with IPv6 addressing).

Configure and verify OSPF areas STUB, NSSA, Totally Stubby, Backbone, and virtual links

Describe the concepts, features, and benefits of integrated IS-IS operation

Describe and configure NET addressing

Configure and verify multi-area integrated IS-IS

Wednesday:

Explain the functions and operations of EIGRP (e.g., DUAL).

Configure EIGRP routing. (e.g., Stub Routing, authentication, etc.)

Verify or troubleshoot EIGRP routing configurations.

Thursday:

Describe the foundational concepts of eBGP and iBGP

Configure and verify BGP operation

Manipulate BGP path selection using Local Preference and MED attributes

Describe, configure or verify route redistribution between IP routing IGPs. (route-maps, default routes, etc.)

Configure policy-based routing to implement source-based routing

Friday AM:

Review and Test Routing (642-902)

Friday PM:

Trouble shooting Routed Networks

Saturday:

Advanced Trouble shooting labs for Routed Networks



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Week 2 – Switching and Troubleshooting Switched Networks

Sunday:

Describe best practices for VLAN implementation in the Enterprise Composite Model
Describe and configure VLANs including, Native, Static, and Voice (Aux)
Describe and configure VTP to distribute VLAN information
Verify VLAN implementations
Describe the operation of CEF in a multi-layer switch environment
Describe and configure Inter-VLAN routing in a LAN environment
Describe and configure SVI and routed ports on Catalyst switches
Verify InterVLAN routing implementations

Monday:

Describe and configure gateway redundancy protocols (e.g. HSRP, VRRP and GLBP)
Verify High Availability configurations
Describe common Layer 2 network attacks (e.g., MAC Flooding, Rogue Devices, VLAN Hopping, DHCP Spoofing, etc.)
Explain and configure Port Security, 802.1x, VACLs, Private VLANs, DHCP Snooping, and DAI.
Verify Catalyst switch security configurations (i.e., Port Security, 802.1x, VACLs, Private VLANs, DHCP Snooping, and DAI).
Explain the functions and operations of the Spanning Tree protocols (i.e., RSTP, PVRST, MSTP).
Configure RSTP (PVRST) and MSTP.
Describe and configure STP security mechanisms (i.e., BPDU Guard, BPDU Filtering, Root Guard).

Tuesday:

Configure and Verify UDLD and Loop Guard.
Verify or troubleshoot Spanning Tree protocol operations.
Describe the characteristics of voice in the campus network.
Describe the functions of Voice VLANs and trust boundaries.
Configure and verify basic IP Phone support (i.e. Voice VLAN, Trust and CoS options, AutoQoS for voice).
Describe the components and operations of WLAN topologies (i.e., AP and Bridge).
Describe the features of Client Devices, Network Unification, and Mobility Platforms (i.e., CCX, LWAPP).
Configure a wireless client (i.e., ADU).

Wednesday AM:

Review and Test Switching (642-813)

Wednesday PM:

Troubleshooting Switched Networks

Thursday:

Troubleshooting Switched Networks

Friday:

Review and Test Troubleshooting (642-832)