

Course Name: CCNP Security

Course Time: 100 Hrs.

Course Prerequisites: CCNA Security

Course Outline:

➤ **Pre-Production Design**

- ❖ Choose Cisco IOS technologies to implement HLD
- ❖ Choose Cisco products to implement HLD
- ❖ Choose Cisco IOS features to implement HLD 2
- ❖ Integrate Cisco network security solutions with other security technologies
- ❖ Create and test initial Cisco IOS configurations for new devices/services

➤ **Complex Support Operations**

- ❖ Optimize Cisco IOS security infrastructure device performance
- ❖ Create complex network security rules to meet the security policy requirements
- ❖ Optimize security functions, rules, and configuration
- ❖ Configure and verify NAT to dynamically mitigate identified threats to the network
- ❖ Configure and verify IOS Zone Based Firewalls including advanced application inspections and URL filtering
- ❖ Configure and verify the IPS features to identify threats and dynamically block them from entering the network
- ❖ Maintain, update and tune IPS signatures
- ❖ Configure and verify IOS VPN features
- ❖ Configure and verify layer 2 and layer 3 security features

➤ **Advanced Troubleshooting**

- ❖ Advanced Cisco IOS security software configuration fault finding and repairing
- ❖ Advanced Cisco routers and switches hardware fault finding and repairing

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