

CERTIFICATE

THIS IS TO CERTIFY THAT

SUPONO

has successfully completed a 30-hour course in

ICND v2.0 - CCNA ROUTING AND SWITCHING

preparing for Cisco Certified Network Associate (CCNA #200-120)

June 22-26, 2015



Harry Santoso, D.R.
EDUCATION DIRECTOR

June 26, 2015
DATE ISSUED

COURSE TOPICS

ICND v2.0 - CCNA ROUTING AND SWITCHING

preparing for *Cisco Certified Network Associate* (CCNA #200-120)

- **Building a Simple Network**
 - › Exploring the Functions of Networking
 - › Understanding the Host to Host Communications Model
 - › Introducing LANs
 - › Starting a Switch
- **Establishing Internet Connectivity**
 - › Understanding the TCP/IP Internet Layer
 - › Understanding IP Addressing and Subnets
 - › Understanding the TCP/IP Transport Layer
 - › Exploring the Functions of Routing
 - › Configuring a Cisco Router
 - › Exploring the Packet Delivery Process
 - › Enabling Static Routing
 - › Managing Traffic Using ACLs
 - › Enabling Internet Connectivity
- **Managing Network Device Security**
 - › Securing Administrative Access
 - › Implementing Device Hardening
 - › Implementing Traffic Filtering with ACLs
- **Building a Medium-Sized Network**
 - › Implementing VLANs and Trunks
 - › Routing Between VLANs
 - › Using a Cisco Network Device as a DHCP Server
 - › Introducing WAN Technologies
 - › Introducing Dynamic Routing Protocols
 - › Implementing OSPF
- **Introducing IPv6**
 - › Introducing Basic IPv6
 - › Understanding IPv6
 - › Configuring IPv6 Routing
- **Implementing Scalable Medium-sized Networks**
 - › Troubleshooting VLAN Connectivity
 - › Building Redundant Switched Topologies
 - › Improving Redundant Switched Topologies with Etherchannel
 - › Understanding Layer 3 Redundancy
- **Troubleshooting Basic Connectivity**
 - › Troubleshooting IPv4 Network Connectivity
 - › Troubleshooting IPv6 Network Connectivity
- **Implementing an EIGRP-Based Solution**
 - › Implementing EIGRP
 - › Troubleshooting EIGRP
 - › Implementing EIGRP for Ipv6
- **Implementing a Scalable, Multiarea Network, OSPF-Based Solution**
 - › OSPF Overview
 - › Multiarea OSPF Implementation
 - › Troubleshooting Multiarea OSPF
 - › Examining OSPFv3
- **Wide-Area Networks**
 - › Understanding WAN Technologies
 - › Configuring Serial Encapsulation
 - › Establishing a WAN Connection using Frame Relay
 - › Introducing VPN Solution
 - › Configuring GRE Tunnels
- **Network Device Management**
 - › Configuring Network Devices to Support Network Management Protocols
 - › Managing Cisco Devices