

# Cisco Certified Training for the LMN Community

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# Agenda

The need for Cisco certified training

Cisco Certificate tracks

Overview of courses offered

ICND1

ICND2

BSCI

BGP



Organisational benefits

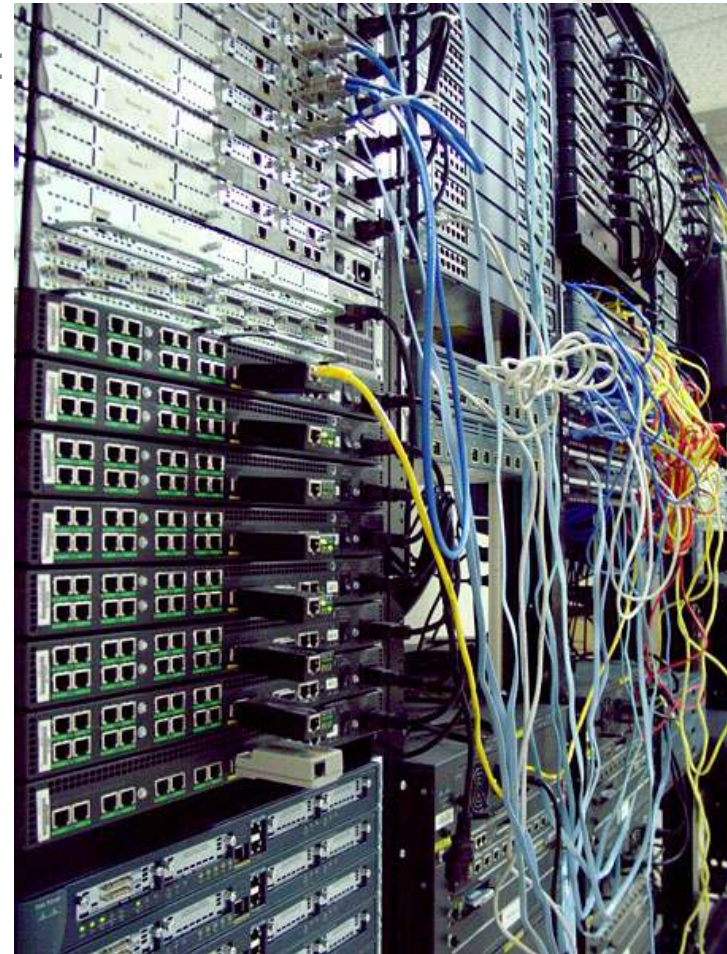
LMN booking process



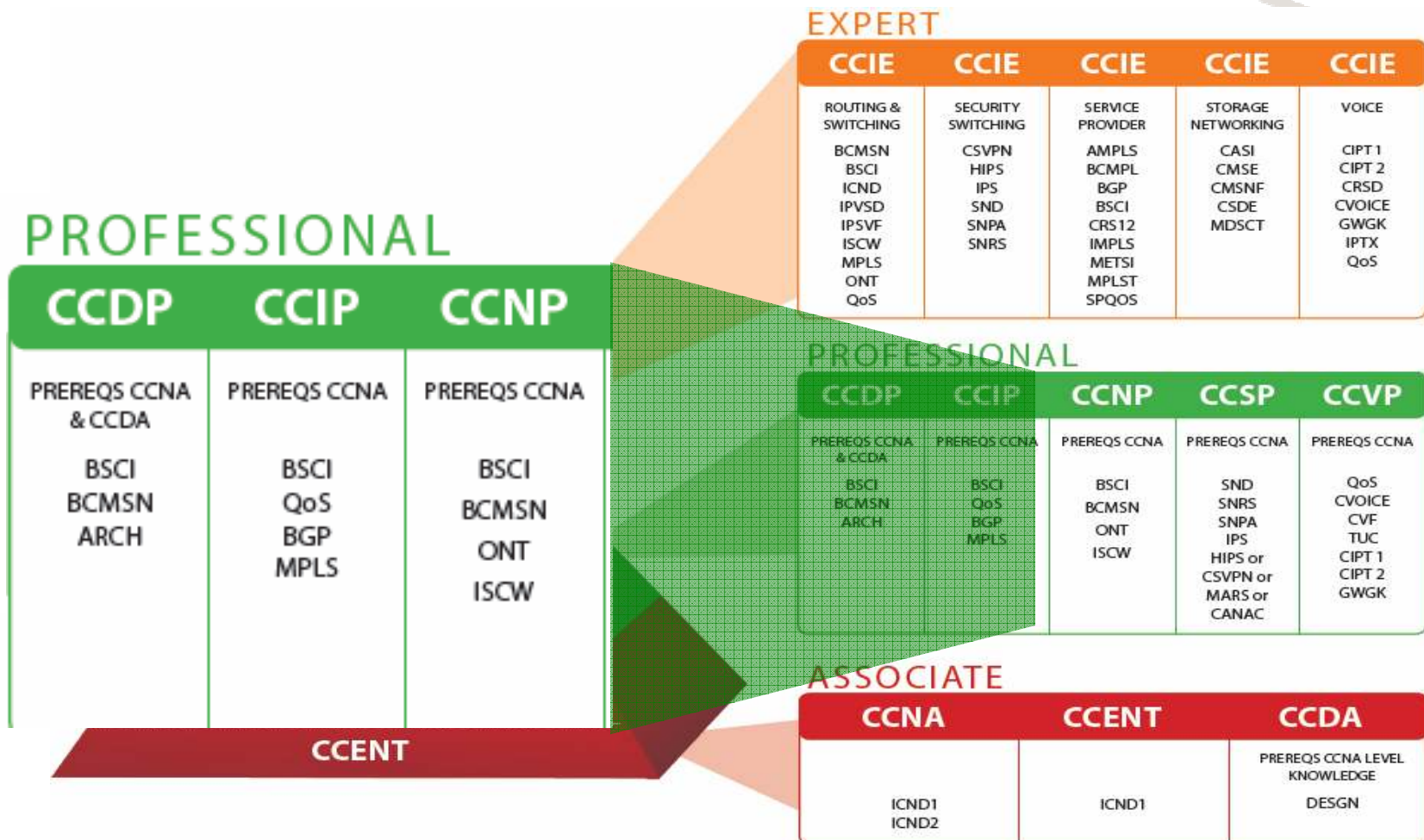
# The need for Cisco certified training

To provide a high performance and resilient network infrastructure with resilient connectivity:

- Requires a collaborative element within the LMN community
- Understanding and application of applied network technologies from basic switching through to the intricacies of BGP peering
- Gained through the Cisco Certification track.



# Cisco certification tracks



## ICND 1 course goal

“To provide you with the knowledge and skills necessary to install, operate, and troubleshoot a small network”



# ICND 1 course content

- How networks function
- Network components and their functions
- Open Systems Interconnection (OSI) reference model
- Binary, decimal, and hexadecimal numbering
- Switching operations and theory
- Host-to-Host packet delivery process
- TCP/IP network addressing and routing
- IP subnetting
- Providing Local Area Network (LAN), Wide Area Network (WAN), and Remote access services
- Advanced network theory, including Virtual Private Networks (VPN), Content Delivery Networks (CDN), Intranets and extranets, and wireless networking
- Introduction to Cisco Internet Operating System (IOS)
- Initial configuration of Cisco Catalyst Switches and Routers
- Network discovery and management using
- Cisco Discovery Protocol (CDP), telnet, and Trivial FTP (TFTP)



## ICND 2 course goal

“To install, operate, and troubleshoot a medium-sized network, including connecting to a WAN and implementing network security ”



## ICND2 course content

- Review how to configure and troubleshoot a switch and router in a small network environment
- Expand the switched network from a small to medium network environment
- Dangers of redundant switching
- Spanning Tree
- Concepts of VLANs and trunking
- Implementing VLSM
- Configure, verify, and troubleshoot OSPF
- Configure, verify, and troubleshoot EIGRP
- Determine when to use access control lists (ACLs)
- Configure, verify, and troubleshoot ACLs
- Configure NAT and PAT
- IPv6 addressing
- Configure PPP, CHAP, and PAP
- Frame Relay operation
- VPN solutions



# Building Scalable Cisco Internetworks course goal

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METROPOLITAN  
NETWORK  
*Higher. Further. Faster.*

**“To train network administrators on the techniques to plan, implement, and monitor a scalable IP routing network.”**



# BSCI course content

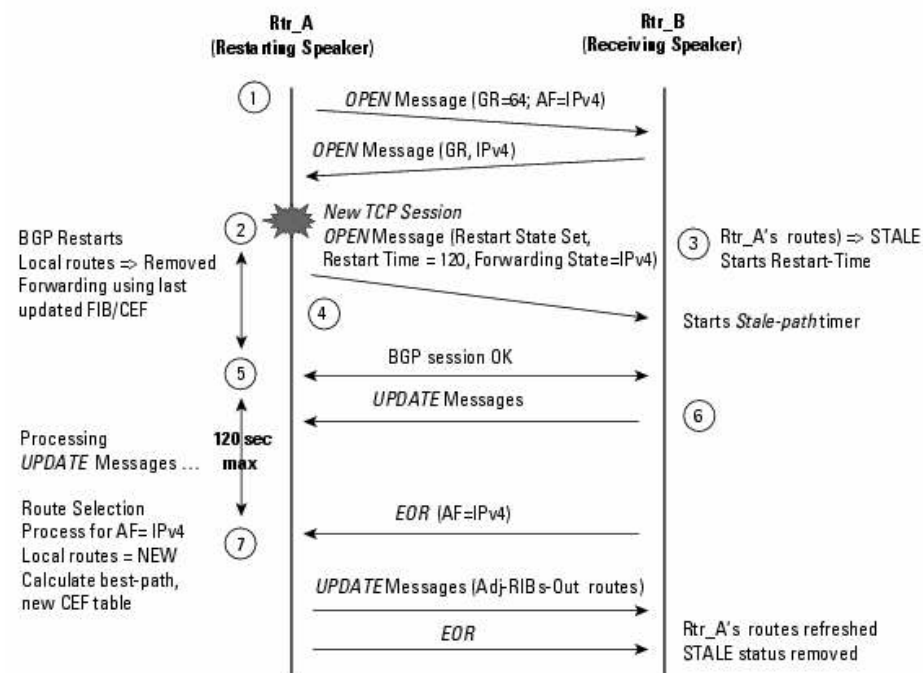
- Course Introduction to Routing in an Enterprise Networks
- Configuring EIGRP
- Configuring OSPF
- The IS-IS Protocol
- Manipulating Routing Updates
- Implementing BGP
- Implementing Multicast
- Implementing the Basics of IPv6



# Configuring BGP on Cisco Routers

## course goal

“To provide learners with in-depth knowledge of Border Gateway Protocol”



# BGP course content

- BGP Overview
- BGP Transit Autonomous Systems
- Route Selection Using Policy Controls
- Route Selection Using Attributes
- Customer-to-Provider Connectivity with BGP
- Scaling Service Provider Networks
- Optimizing BGP Scalability



# Organisational benefits

## What are the benefit's of attending a Cisco Authorized Training course?

- Lower staff turnover
- Increased job satisfaction
- Lower support costs
- Less reliance on 3rd party support
- Quicker problem resolution
- Reduced TCO
- Increased ROI on network
- Get more from the network investment by having staff trained to use all of its functions
- Make better decisions on network purchases by having in house skills and knowledge
- Evaluate growth strategies for network using own staff
- Evaluate new technology with internally skilled staff



# Process of booking with LMN

- Complete the Cisco Certified Training Evaluation Form
- Submit it for approval
- That's it!

The screenshot shows a Mozilla Firefox browser window titled "Form Factory - Mozilla Firefox". The page content includes the LMN logo, the title "Cisco Certified Training Evaluation Form\*", and introductory text about a training subsidy. Below the text are three input fields for "Name of Line-Manager:", "Name of Organisation:", and "Name of Candidate:". A section titled "Which course do you wish to register an interest in?" lists four courses with checkboxes: ICND1, ICND2, BSCI, and BGP. There is also a text area for "Please add any comments here:" and a final question: "What other topics would you like us to address in future meetings?" with a corresponding text box. The browser's status bar at the bottom shows "Done".

**LONDON METROPOLITAN NETWORK**

### Cisco Certified Training Evaluation Form\*

LMN in conjunction with Fast Lane a Cisco certified training company is happy to offer up to 80% subsidy on training courses usually worth between £1,400 - £1,800 per candidate. In order for us to establish interest in each of the courses, please complete the information below and click submit.

Please note that at this stage only one representative from each LMN member institution can register an interest in each course.

\*By completing this form there is no obligation to register on the course. Discounts will be based on attendance levels.

This offer is available strictly to LMN members and associate members.

**Name of Line-Manager:**

**Name of Organisation:**

**Name of Candidate:**

**Which course do you wish to register an interest in? (Please make sure you meet the prerequisites for each course outline at <http://www.lmn.net.uk/events/LMN%20Training/index.htm>)**

ICND1

ICND2

BSCI

BGP

Please add any comments here:

**What other topics would you like us to address in future meetings?**

Done

Thank you

Fast Lane Consulting & Education Services

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