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## CCIE Routing & Switching Preparation Theory Course

**Duration: 5 Days**    **Course Code: CCIET**

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### Overview:

This five-day instructor led theory course is designed to assist potential CCIE delegates by refreshing and enhancing their existing Cisco Systems knowledge with the additional information required to pass the CCIE Routing & Switching Theory Exam 350-001

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### Target Audience:

Anyone studying for the CCIE Routing & Switching Theory exam.

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### Objectives:

- Confidently sit the CCIE Routing & Switching Theory Exam 350-001
  - Detail the theory behind configuring complex Routing and Switching networks
  - Have an enhanced knowledge of Cisco Routing & Switching technology and methodology
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### Prerequisites:

Delegates are required to meet the following prerequisites:

Completion of:

- CCNP
- QoS
- BGP -Not Essential but recommended

### Testing and Certification

Recommended as preparation for exam(s):

- 350-001 Theory Exam
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### Follow-on-Courses:

The following courses are recommended for further study:

- CCIE1 and CCIE2 only after passing the Theory Exam.
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## Content:

### General Networking Theory

- OSI Models
- General Routing Concepts
- Standards
- Protocol Mechanics
- Commands

### Bridging and LAN Switching

- Transparent
- LAN Switching
- MLS
- Data Link Layer
- Ethernet
- Catalyst IOS Configuration Demands

### IP

- Addressing
- Applications
- Services
- Transport
- IPv6
- Network Management

### IP Routing

- OSPF
- BGP
- EIGRP
- RIPv2
- Route Filtering and Policy Routing
- The use of 'show' and 'debug' commands

### QoS

- Traffic Classification
- Congestion Management
- Congestion avoidance

### WAN

- Frame Relay
- Physical Layer
- Leased Line Protocols

### IP Multicast

- IGMP/CGMP
- Addressing
- Distribution Trees
- PIM-SM Mechanics
- Rendezvous Points
- RPF

### Security

- Access Lists, LAN Security
- Device Security/Access
- Spoofing

### Enterprise Wireless Mobility

- Standards
- Hardware
- SWAN
- VoWLAN
- RF Troubleshooting
- Products

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## Further Information:

For More information, or to book your course, please call us on 353-1-814 8200

[info@globalknowledge.ie](mailto:info@globalknowledge.ie)

[www.globalknowledge.ie](http://www.globalknowledge.ie)

Global Knowledge, 3rd Floor Jervis House, Millennium Walkway, Dublin 1