



# CCIE Routing & Switching Core Skills

CCIE1

5 day

**Overview :**

This five day course is designed as an instructor led course supported by comprehensive lab exercises to address areas of the CCIE curriculum not covered through CCNP or CCIP courses. The content covers round about 60% of the possible configuration in the CCIE lab. The whole Routing & Switching part will be covered with labs. The course covers the new CCIE lab curriculum from January 1<sup>st</sup> 2006

**Target Audience :**

This course is aimed at candidates for the CCIE Routing and Switching Lab Exam after having successfully completed the written exam. It is also recommended that delegates attending this course also attend the CCIE 2, CCIE Routing & Switching Lab preparation course

**Objectives:**

- Configure advanced Catalyst IOS features
- Configure advanced Frame-Relay features
- Use advanced IGP features and IOS commands
- Configure complex BGP policies with different attributes
- Configure complex redistribution tasks
- Deploy and troubleshoot advanced BGP filters

**Course Content :**

**Bridging and Switching**

- Switching as covered by CCIE lab blueprint
- Switching IOS features
- Trunks, VLANs, VTP
- Cluster Commander, VACL, 802.1q Tunnelling

**WAN**

- Frame-Relay
- Point-to Point Sub-interfaces
- Multipoint Sub-interfaces

**RIP V2**

- Distribute Lists, Route FilteringRoute Manipulation, Distance

**EIGRP**

- Timers
- Bandwidth consumption
- Advanced commands EIGRP
- Summarization

**OSPF**

- OSPF via Frame Relay
- Authentication
- Virtual Links
- Costs, Metrics of external Routes
- Tuning CPU load
- Summarization

**IGP Features**

- Complex and unusual configurations
- Complex redistribution techniques

- Route Tagging
- Routing Loop Avoidance
- Route Filtering
- Summarization

**BGP**

- Large scale BGP deployment
- Route Reflectors
- Confederations
- Route maps
- AS-Path Lists
- Prefix Lists
- Route manipulation with AS-Path Prepending, local preference, MED, ...
- Route Flap Dampening
- Communities

**IOS Features**

- Advanced and unusual IOS commands
- TunnelsPolicy Based Routing

**Course Prerequisites :**

- Have passed CCIE Written Exam 350-001 at 70% or higher
- Valid CCNP
- Attended BGP

**Testing and Certification :**

- CCIE Routing and Switching Lab Exam

**Follow on Courses :**

- CCIE 2 – CCIE Routing & Switching Lab Preparation

**Further Information :**

CCIE1/	<p>For More information, or to book your course, please call us on 01 814 8200                  email <a href="mailto:salesdesk.ie@globalknowledge.ie">salesdesk.ie@globalknowledge.ie</a>                  Global Knowledge, 3rd Floor, Jervis House,                  Millennium Walkway, Dublin 1, Ireland</p> <p><a href="http://www.globalknowledge.ie/">http://www.globalknowledge.ie/</a></p>
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