

## Cisco Certified Network Professional (CCNP) ROUTE (300-101)

**Length:** 5 Days

**Summary:** This course will teach you how to implement advanced IP addressing plans and routing protocols in scalable Cisco networks. It will fully prepare you to pass the 642-902 ROUTE exam and is the only training you need, featuring both theoretical topics and practical examples.

**Course Objectives:** Upon completing this course, the learner will be able to meet these overall objectives:

- Describe routing protocols, different remote connectivity options and their impact on routing and implement RIPng
- Configure EIGRP in IPv4 and IPv6 environment
- Configure OSPF in IPv4 and IPv6 environment
- Implement route redistribution using filtering mechanisms
- Implement path control using policy based routing and IP SLA
- Implement enterprise Internet connectivity
- Secure Cisco routers according to best practices and configure authentication for routing protocols

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## COURSE CONTENT

**Module 1: Basic Network and Routing Concepts**

**Module 2: EIGRP Implementation**

**Module 3: OSPF Implementation**

**Module 4: Configuration of Redistribution**

**Module 5: Path Control Implementation**

**Module 6: Enterprise Internet Connectivity**

**Module 7: Routers and Routing Protocol Hardening**