

# Advanced Cisco Addressing and Routing Solutions

This Advanced Cisco Addressing and Routing Solutions training covers how to design EIGRP, OSPF, IS-IS and BGP routing in an enterprise network. Planning and designing the routing solutions an enterprise network will need involves a respect for the complexity of choices a network has before it. And managing an IPv6 addressing plan — sometimes in an existing IPv4 network — comes with unique challenges.

[CBT Nuggets course material](#) →

## WEEK 1

### Design an IPv4 and IPv6 Addressing Scheme

162 min.

Introducing IPv4 Address Schemes	1
An IPv4 Refresher	11
Designing a Basic Subnet	9
Designing for an Enterprise	8
Considerations of VLSM	5
Summarizing IPv4 Addressing	1
Introducing IPv6 Addressing Schemes	1
IPv6 Address Structure	8
IPv6 Address Allocations	10
Stateless and Stateful Configuration	10
Configure IPv6 Addresses	9
Summarizing IPv6 Addressing	1

### Design Networks with EIGRP

Overview	1
Designing EIGRP Networks	1
EIGRP Neighborships	17
EIGRP Metrics	12
The Feasibility Condition	7
Autonomous Systems	6
Stub Routers	7
Summarization Points	5
EIGRP Authentication	6
Summarizing EIGRP Design	1

### Designing Networks with OSPF

Overview	1
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Introducing OSPF	1
Neighbor Adjacency Formation	21

## **WEEK 2**

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	<b>41 min.</b>
Designated and Backup Designated Routers	11
The LSAs	9
OSPF Areas	12
Authentication	7
Summarizing OSPF	1