TK720: IP Routing

Duration

3.0 Days

Course Content

1. IP Addressing

- 1.1. IP Addressing structure
- 1.2. Subnetting

2. Routing Overview

- 2.1. Static routing
- 2.2. Dynamic routing

3. Routing Information Protocol (RIP)

- 3.1. Overview of RIP
- 3.2. Characteristics of RIPv1
- 3.3. Characteristics of RIPv2

4. Open Shortest Path First (OSPF)

- 4.1. OSPF routing protocols, Link State Routing, Route calculation process
- 4.2. OSPF areas, router types, inter-area calculation, communication with external AS

5. Border Gateway Protocol (BGP)

- 5.1. BGP characteristics
- 5.2. Format of BGP messages,
- 5.3. BGP path attributes, BGP route selection
- 5.4. Multicast Routing

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5.5. Introduction to multicast and multicast addressing

5.6. Multicast groups, IGMPv1 and IGMPv2 comparison

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