

HCIP-Datacom-Enterprise Network Solution Design



Online Course

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HCIP-Datacom-Enterprise Network Solution Design

Course Modules

1. Enterprise Network and Solution Overview

- Definition of Enterprise Networks
- Typical Enterprise Network Scenarios
- Development Trends and Challenges of Enterprise Networks
- Huawei Enterprise Network Solution

3. WAN Interconnection Planning and Design

- Basic Architecture of a Typical WAN Interconnection Solution
- WAN Interconnection Network Technologies and their App
- WAN Interconnection Reliability Technologies and their App
- WAN Interconnection Optimization Technologies and their App
- WAN Interconnection Security Technologies and their App
- Enterprise WAN Interconnection Design
- Dvlpmnt Trends & Challenges of Enterprise WAN Interconnection
- Huawei SD-WAN Solution Overview, Main Functions, and App
- Huawei SD-WAN Networking Design: Site Design, Tunnel Design..
- Huawei SD-WAN Service Design: Application Service Design
- Huawei SD-WAN Reliability & Security Desgn: Site Reliability Dsgn



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2. Campus Network Planning and Design

- Campus Network Overview
- Campus Network Ethernet Technologies & IP Routing Technologies
- Campus Network Wireless Access Technologies & Campus Egress
- Campus Network Reliability and Network Security Technologies
- Campus Network Service and Management Technology and App
- Typical Applications of Campus Network Technologies Large- and Medium-Sized Virtualized Campus Network Design
- Requirements & Challenges of Large- and Medium-Sized Campus
- Huawei CloudCampus Soln Overview, Dploymnt Mode,& Netwrk
- CloudCampus Soln on Medium- & Large-Sized Virtualized Campus
- Undrlay Ntwrk Desgn fr Medium- & Large-Sized Virtualzd Campus
- Ovrly Netwrk Desgn for Medium- & Large-Sizd Virtualzd Campus
- Network Admission Ctrl & Free Mobility Design fr Large- & Medm
- WLAN Design, Network Security Design, and O&M design
- Small- &Medium-Sized Cloud-Managed Campus Network Design
- Trends and Challengs of Small- & Medium-Sized Campus Netwrks
- Huawei CloudCampus Solution Overview, Deploymnt Mode, Soln
- Application of Huawei CloudCampus Solution on Small- & Med
- Network Management Mode, Network O&M Mode, and License
- Network Architecture, Networking Solution, & Reliability Design
- Small- and Medium-Sized Cloud Management Campus Networks
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4. Data Center Network Planning and Design

- Data Center(DC) and Data Center Network(DCN) Overview
- Typical DCN Architecture
- Common Terms of DCs
- Key Services of DCs
- Key services of DCNs
- Huawei CloudFabric Solution

5. Data Center Network Design

- DCN Requirements and Challenges
- Huawei CloudFabric Solution Overview
- Solution Components
- Network Architecture
- Typical Scenarios, and Key Technologies
- DCN Planning and Design Methods
- Typical DCN Overall Architecture Design and Netwrk Zone Design
- Typcal DCN Key Attribute Design, Netwrk Securty Design, & O&M



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6. Bearer WAN Planning and Design

- Bearer WAN Architecture
- Bearer WAN Basics: Overview and App of MPLS, SR-MPLS & SRv6
- VPN Service: WAN VPN Overview & Tunnel Managmnt Overview
- Network Traffic Optimization: Network Information Collection
- Service Level Agreeemts (SLAs): QoS, Channelized Sub-interface
- Network Reliability: TE Tunnel Protection Technologies
- Network Management and O&M

7. Enterprise Bearer WAN Design

- Current Situation and Challenges of the Enterprise Bearer WAN
- Huawei CloudWAN Solution Overview
- Basc Dsgn for the Enterprise Bearer WAN: Physical Netwrk Dsgn
- Tunnel & VPN Design for the Enterprse Bearer WAN: Tunnel Dsgn
- SLA and Reliability Design for the Enterprise Bearer WAN: SLA
- Optimization and O&M Design for the Enterprise Bearer WAN
- Optimization Design and O&M Design

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