



HUAWEI TRAINING

# HCIP-Datacom (Huawei Certified ICT Professional)

*Become a Huawei networking expert. Gain HCIP-Datacom skills to design, deploy, and optimize complex data communication networks.*

DURATION

**80 hours**

LEVEL

**Intermediate**

FORMAT

**Instructor-Led**

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | [www.computer-pride.co.ke](http://www.computer-pride.co.ke)

## COURSE OVERVIEW

The HCIP-Datacom (Huawei Certified ICT Professional) certification from Computer Pride is an intensive 80-hour program designed for IT professionals seeking to master advanced data communication technologies and solutions. This course equips you with the in-depth knowledge and practical skills required to proficiently plan, deploy, maintain, and optimize complex enterprise networks leveraging Huawei's cutting-edge networking equipment and solutions. You will delve into the intricacies of advanced routing and switching, robust network security, efficient WLAN deployment, and foundational concepts of modern network programmability.

This comprehensive curriculum emphasizes practical application, covering core technologies such as advanced OSPF and BGP routing, MPLS VPNs, sophisticated VLAN and VXLAN configurations, and enterprise-level network security features including firewalls and various VPN technologies. Furthermore, you will gain expertise in constructing and optimizing high-performance wireless networks, understanding Quality of Service (QoS) mechanisms, and exploring Software-Defined Networking (SDN) principles and basic network automation. Achieving HCIP-Datacom certification significantly enhances your professional credibility, opening doors to higher-level roles and enabling you to contribute effectively to sophisticated network projects within Huawei's expansive ecosystem and beyond. It positions you as an expert capable of designing, troubleshooting, and optimizing robust, scalable, and secure network infrastructures.

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|----------|--------------|
| Duration | 80 hours     |
| Level    | Intermediate |
| Vendor   | Huawei       |

### PREREQUISITES

- None required

## COURSE CURRICULUM

### 01 Module 1: Advanced Routing Technologies

- OSPF Advanced Features and Optimization
- BGP Principles and Configuration (iBGP, eBGP)
- Route Selection and Control Mechanisms
- IPv6 Routing Protocols and Transition Technologies
- Policy-Based Routing (PBR)

### 02 Module 2: Advanced Switching and MPLS

- Advanced VLAN and VXLAN Concepts
- Spanning Tree Protocols (STP, RSTP, MSTP) Optimization
- Ethernet OAM and Link Aggregation (LACP)
- MPLS Basics and VPN Solutions (MPLS L3VPN)

### 03 Module 3: Network Security and High Availability

- Huawei Firewall Principles and Application
- IPSec VPN and SSL VPN Configuration
- Network Access Control (NAC) Solutions
- High Availability Technologies (VRRP, Smart Link, ERPS)
- AAA Authentication and Authorization

## 04 Module 4: Enterprise WLAN and QoS

- WLAN Planning, Deployment, and Optimization
- Advanced WLAN Features (Roaming, Mesh, WIDS/WIPS)
- Quality of Service (QoS) Mechanisms and Configuration
- Multicast Routing Protocols (IGMP, PIM)

## 05 Module 5: SDN and Network Automation Fundamentals

- Introduction to SDN and Huawei iMaster NCE-Campus
- Network Automation Concepts and Basic Scripting (Python)
- NETCONF/YANG Protocol Basics
- Telemetry and Intelligent Network Monitoring

## 06 Module 6: Cloud-Ready Network Solutions

- Data Center Network Architectures (Leaf-Spine)
- Cloud Interconnection Solutions and Hybrid Cloud Networking
- Network Virtualization Technologies
- Network Migration and Evolution Strategies

## CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Senior Huawei Network Engineer**
- > **Enterprise Network Solution Architect**
- > **Datacom Network Consultant**

## FREQUENTLY ASKED QUESTIONS

### **Q: What are the recommended prerequisites or prior certifications before attempting the HCIP-Datacom course?**

While there are no strict prerequisites, it is highly recommended that candidates first achieve the HCIA-Datacom (Huawei Certified ICT Associate - Datacom) certification or possess equivalent foundational knowledge in data communication networking. This ensures a solid understanding of basic routing, switching, and network principles, allowing you to fully grasp the advanced concepts and practical applications taught in this HCIP-Datacom program.

### **Q: How does HCIP-Datacom specifically prepare me to design and implement complex enterprise network solutions?**

The HCIP-Datacom curriculum is meticulously structured to provide hands-on expertise in designing, deploying, and optimizing sophisticated enterprise networks. You will gain proficiency in configuring advanced routing protocols like OSPF and BGP for large-scale networks, implementing robust MPLS VPN solutions, securing network perimeters with Huawei firewalls and VPNs, and building resilient WLAN infrastructures. This comprehensive skill set empowers you to architect and troubleshoot high-performance, secure, and scalable network solutions tailored for modern businesses, making you a valuable asset for intricate network projects.

### **Q: What unique career advantages does an HCIP-Datacom certification offer, especially within the Kenyan ICT landscape?**

The HCIP-Datacom certification is highly valued in Kenya's rapidly evolving ICT sector, particularly for roles involving Huawei network infrastructure, which is prevalent in many organizations across various industries. It validates your expertise in advanced Huawei Datacom technologies, making you a preferred candidate for senior network engineering, solution architect, and network consultant positions that specifically require in-depth knowledge of Huawei products and solutions. This certification not only boosts your employability but also provides a clear pathway for career advancement within organizations leveraging Huawei's extensive range of networking equipment.

## ABOUT COMPUTER PRIDE



*East Africa's Premier IT Training Center*

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

**15+**

Years of Excellence

**10,000+**

Professionals Trained

**50+**

Vendor Certifications

## READY TO ENROL?

Take the next step in your technology career.

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