



HUAWEI Courses

- HUAWEI Certified ICT Associate (HCIA)
- HUAWEI Certified ICT Professional (HCIP)
- HUAWEI Certified ICT Expert

Riara
University
nurturing innovators

SCHOOL OF
COMPUTING
SCIENCES



Huawei Courses

Huawei offers three levels of certification namely Huawei Certified ICT Associate (HCIA), Huawei Certified ICT Professional (HCIP) and Huawei Certified ICT Expert.

Huawei Datacom

HCIA-Datacom certification aims to train and certificate engineers or ICT practitioners with basic data communication knowledge and skills. The Datacom certification is an upgraded version of the Routing & Switching certification, which will replace the Routing & Switching certification as Huawei's standard for building datacom talent capabilities. HCIA-Datacom includes the following contents: Routing and switching principles, basic WLAN principles, basic knowledge of network security, basic knowledge of network management and O&M, and basic knowledge of SDN and programming automation.

Target Audience

- ICT Students, Practitioners, Engineers and Technologists who have interest in networking as well as planning, implementation, deployment, operationalization, maintenance and optimization responsibilities.
- ICT policy makers, designers and administrators who need to master basic datacom knowledge and capabilities in in small and medium-sized networks.
- Those interested in integrating Huawei Routing and Switching devices.

General Objective

Upon completion of this course, you will have a basic understanding of small and medium-sized networks, including general network technologies, and the ability to assist the design of small and medium-sized networks, and implement the designs using Huawei routing and switching devices.

Specific Objectives

After completing the training, you will be able to:

- Understand the definition of data communication and the capability model of data communication engineers.
- Understand the network reference model and the entire data communication process.
- Be familiar with the VRP system and be able to perform basic operations.
- Understand IPv4 address protocol and related concepts

- Understand the forwarding principles of Layer 3 devices such as routers and Layer 3 switches.
- Understand the concept of routing and use static route or OSPF to build a Layer 3 network.
- Understand basic Ethernet concepts and describe the functions and working principles of Layer 2 switching devices.
- Be familiar with common Ethernet protocols, such as VLAN, Spanning Tree Protocol, link aggregation and stacking.
- Configure ACLs and AAA to provide basic security solutions for the network.
- Be familiar with the NAT protocol and master the NAT configuration in different scenarios.
- Master the configuration of common services on enterprise networks, such as DHCP, FTP and Telnet.
- Understand basic WLAN concepts and complete basic configurations of small or medium-sized WLAN networks.
- Understand basic WAN concepts and WAN solutions such as MPLS and SR.
- Have general knowledge of basic concepts of enterprise network management.
- Be familiar with traditional network management and SDN-based network management solutions.
- Have a good command of IPv6 protocols and be able to build small-scale IPv6 networks.
- Have a good command of the campus network construction process. Be able to independently construct small-sized campus networks.
- Understand the basic concepts of SDN and programming automation

Admission Requirements

- Basic knowledge and understanding of IT technologies and applications
- Students who have completed form four KCSE, taken or are taking Computer Science or IT related courses as well as practicing professionals
- Participants who intend to enhance their basic understanding of IT technologies and applications to master skills in design and implementation of computer networks using Huawei routing and switching devices.

Fees

The fees obligation for this course is 25,000 (Twenty Five Thousand Kenyan Shillings) and a statutory fee of 3,000 ((Three Thousand Kenyan Shillings).

Course Duration

The course takes a duration of about two months.

DISCLAIMER: Every effort has been made to ensure that information contained in this prospectus is accurate at the time of publication. However, Riara University reserves the right to make changes to the matters covered from time to time, both before and after a candidate's admission.

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