

Training: Huawei  
HCNP-R&S-IENP Improving Enterprise Network Performance



FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Hardcopy	2250 USD	5 days
Traditional	CTAB Tablet	2380 USD	5 days

## LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm

Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

## TRAINING GOALS:

With HCNP-R&S certification, you demonstrate a comprehensive and thorough understanding of small and medium-sized networks, including general network technologies, and the ability to design small and medium-sized networks independently and implement the designs using Huawei routing and switching devices.

On completion of this program, the participants will be able to:

- Describe MPLS/MPLS VPN
- Configure MPLS VPN
- Configure DHCP, Mirroring
- Describe eSight, Agile Controller
- Describe IP QoS end-to-end process
- Describe Information Security Overview and Huawei Firewall Technology Basis
- Configure VRRP, BFD
- Understand SDN, VXLAN, NFV technologies

Target Audience:

- Those who hope to become a network professional
- Those who hope to obtain HCNP-R&S certificate

## CONSPECT:

- MPLS
  - The MPLS working principles

- The MPLS configuration
- MPLS VPN
  - The traditional VPN models
  - The working principles of MPLS VPN
  - The basic configuration of MPLS VPN
- DHCP
  - DHCP principles and configurations
  - DHCP relay principles and configurations
  - DHCP and corresponding protection mechanisms
- Mirroring
  - Mirroring principles
  - Configure the mirroring function
- eSight
  - The background about eSight
  - eSight installation and uninstallation procedures
  - The eSight license application process
  - eSight basic functions
  - Operations of eSight basic functions
- Agile Controller
  - Challenges facing traditional networks
  - Basic functions and features of the Agile Controller
  - Agile Controller configuration process
- QoS
  - The factors affecting QoS
  - QoS service models
  - The implementation of the DiffServ model
  - The packet classification basis
  - The process of packet re-marking
  - The configuration of the classification and re-marking
  - The implementation of congestion management
  - Common queue scheduling algorithms
  - The disadvantages and solution of tail drop
  - Features of traffic policing and traffic shaping
  - The configuration of traffic policing and traffic shaping
- Huawei Firewall
  - Why we need information security

- How to ensure information security
- Security issues and risks faced by networks
- How to resolve the security issues faced by networks
- Firewall basic knowledge and security policy configuration
- NAT principle and configuration
- Attack defense principle and configuration
- Application behavior control principle and configuration
- VRRP
  - VRRP principles
  - The VRRP active/standby switchover
  - VRRP configurations
- BFD
  - BFD implementation
  - BFD configurations in common application scenarios
- SDN
  - The benefits of SDN
  - The SDN concept and architecture
  - Ways of SDN evolution for traditional networks
- VXLAN
  - Challenges facing data center networks
  - The basic principles of VXLAN
  - Basic configurations of SDN-based VXLAN
- NFV
  - Basic concepts of NFV
  - The NFV architecture
  - The relationship between NFV and SDN

## REQUIREMENTS:

HCNA certification or the similar knowledge.

## Difficulty level



## CERTIFICATE:

The participants will obtain certificates signed by Huawei.

This course prepares you for the HCNP Huawei Certified Network Professional certification for Routing and Switching (R&S) specialization. HCNP certification exams are offered worldwide through the Prometric test centers. More information about Huawei certification program and available specializations you can find on the

<http://support.huawei.com/learning/NavigationAction!createNavi?navId=CERTIFICATE&lang=en>

## TRAINER:

Huawei Certified Trainer.