



## HCIA-Security V4.0 Exam Outline

### Huawei Certification HCIA-Security Certification Exam

Certification	Exam Code	Exam Name	Exam Format	Language	Exam Cost	Exam Duration	Pass Score/ Total Score
HCIA-Security	H12-711	HCIA-Security V4.0	True-false Question, Single Answer, Multiple Answer, Fill in the blank answers, Drag and drop item	ENU/CHS	200USD	90min	600/1000

### Exam Content

The HCIA-Security V4.0 exam content covers network security concepts and specifications, network basic knowledge, common network security threats and prevention, firewall security policy, firewall network address translation technologies, firewall hot standby technologies, firewall intrusion prevention technologies, firewall user management technologies, and encryption and decryption technology principles and applications.

### Knowledge Module Percentage

Key Module	Exam Percentage
Network security concepts and specifications	5%
Network basics	10%
Common network security threats and threat prevention	5%
Firewall security policy	10%
Firewall NAT technologies	10%
Firewall hot standby technologies	10%
Firewall user management technologies	10%
Firewall intrusion prevention technologies	10%
Fundamentals of encryption technologies	10%
PKI certificate system	5%
Encryption technology applications	15%

### Knowledge points

#### 1. Network Security Concepts and Specifications

##### 1.1 Network Security Definition

##### 1.2 Future Network Security Trends

- 1.3 Information Security Standards and Specifications
- 2. Network Basics**
  - 2.1 Network Reference Model
  - 2.2 Common Network Devices
- 3. Common Network Security Threats and Threat Prevention**
  - 3.1 Overview of Enterprise Network Security Threats
  - 3.2 Communication Network Security Requirements and Solutions
  - 3.3 Zone Border Security Threats and Threat Prevention
  - 3.4 Computing Environment Security Threats and Threat Prevention
  - 3.5 Security Requirements and Solutions of the Management Center
- 4. Firewall Security Policies**
  - 4.1 Firewall Basic Principles
  - 4.2 Application Scenarios of Firewalls in Cyber Security Solutions
- 5. Firewall NAT Technologies**
  - 5.1 Overview of NAT
  - 5.2 Source NAT
  - 5.3 Destination NAT
  - 5.4 Bidirectional NAT
  - 5.5 NAT ALG and NAT Server
- 6. Firewall Hot Standby Technologies**
  - 6.1 Hot Standby Fundamentals
  - 6.2 Hot Standby Basic Networking and Configuration
- 7. Firewall User Management Technologies**
  - 7.1 AAA Principles
  - 7.2 Firewall User Authentication and Application
- 8. Firewall IPS**
  - 8.1 Intrusion Overview

8.2 Intrusion Prevention

8.3 Antivirus

## **9. Fundamentals of Encryption and Decryption Technologies**

9.1 Encryption/Decryption Technology Development

9.2 Encryption/Decryption Technology Fundamentals

9.3 Common Encryption/Decryption Algorithms

9.4 Hash Algorithms

## **10. PKI Certificate System**

10.1 Data Communication Security Technologies

10.2 PKI System Structure

10.3 PKI Working Mechanism

## **11. Encryption Technology Applications**

11.1 Application of Cryptography

11.2 VPN Overview

11.3 VPN Configuration

### **NOTE**

The content mentioned in this document is a general exam guide only. The exam may also contain more specific or related content that is not mentioned above.

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## **Reference**

HCIA-Security V4.0 Course

## **Recommended Training**

HCIA-Security V4.0 Training