



# New H3C University

Product Training Manual 2018 V1

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## 1. Introduction to Technical Training of New H3C University

### 1.1. Leading Digital Technology Trends and Cultivating Excellent Digital Talents

The Technical Training Institute and Technical Certification Institute of New H3C University are the professional training institutions of New H3C Group, providing customers, channel partners, universities and vocational colleges, internal staff, and social IT practitioners with a comprehensive series of network product training, network technology certification, and relevant solutions. We have been committed to providing global customers with high-quality and all-round training services.

The Technical Training Institute and Technical Certification Institute of New H3C University have inherited the certification systems and resource platforms of H3C and HPE in full and reworked the certification systems. By fully considering customer demands at different levels, it has continuously updated its product knowledge system, added certification for special technologies, and included relevant solutions related to practical training workshops. It has exerted the utmost effort to support enterprises and institutions to cultivate excellent network technical talents, upgrade employee capabilities, better improve customers' investment benefits, and bring maximum return to customers.

#### I. Globally-covered Training Resources

The Technical Training Institute and Technical Certification Institute of the New H3C University have established large training bases in Beijing and Hangzhou, and now own 21 authorized training centers and over 450 networking academies across the world. By the end of 2016, 260,000 people from over 40 countries and regions have received training, and 130,000 people have obtained various authentication certificates. The institutes have been granted several professional awards such as Top Ten Brands with Certified Influence, Most Valuable Courses, Outstanding Contribution Award for University Education of Network Technology, and School-Enterprise Cooperation Award.

## II. International Authoritative Certification Brand

New H3C is China's first complete network technology certification system with established international norms, and also the first globally-oriented IT manufacturer certification authority in China. Its products and textbooks have been developed with proprietary intellectual property rights and high technological content. With a focus on improving customer techniques and skills, it has become one of the current authoritative IT certification brands, which can effectively verify your knowledge about networking technology and practical skills, and help you maintain your competitiveness throughout a highly competitive career.

## III. Capable Teachers

The New H3C University and its global training partners now have in total hundreds of full-time trainers with rich theoretical knowledge, practical experience, and strictly certified and examined qualifications.

Furthermore, the New H3C University has a team of experts specializing in course development. They are familiar with the characteristics of vocational education and adept at systematic course design and development to ensure the quality and efficiency of all training courses and meet customer demands.

## IV. Practice-based Course Design

The New H3C University has adhered to product development concepts throughout its course development, which includes four stages, i.e., market research, design, development, and teaching effect evaluation. The courses are designed with a special emphasis on the improvement of student actual capabilities. The highlights include actual hands-on maintenance and operations, net-based case studies, and fault simulation drills. A close connection with the current online environment can greatly improve students' actual operational and maintenance capabilities.

According to user needs and product features, the training courses are designed under the idea of modularization. Each course has its measurable training targets, specific training content, and duration. In addition, the modules emphasize case-based teaching and the cultivation of the ability to apply technology in the curricula of various courses. What's more, corresponding investigations of actual configurations are conducted during the certification test. The modules are also combined in a properly-timed sequence to maximize the results.

## V. Good Training and Experimental Environment

The New H3C University and its global training partners all come equipped with excellent training environments, particularly the experimental environment. Experimental facilities for instruction are all produced by New H3C. The selection of training facilities has focused on the popular equipment on the market, with software promptly updated to provide the latest features. The required

ratio of 1:1 between our students and facilities while experiments are ongoing has been fully ensured in hands-on operation classes. The networking cases for various solutions are also provided as supplements. We have stressed the cultivation of operational abilities and application skills. Each training partner is equipped with special training classrooms, and staffed with at least two certified lecturers. The training textbooks are all certified in accordance with New H3C Standards.

#### VI. Continuous Technical Services

The New H3C University has established individual files for all users participating in training and certification tests and provides follow-up services after training. Through the distribution of materials, online school, student exchanges, technical seminars and other techniques, we can ensure that our students' knowledge will be up to date and enriched constantly to keep abreast of leading products, technologies, and relevant solutions in the industry.

### 1.2. Course System of Technical Institutes of New H3C University

The New H3C technical institutes can provide technical and product training solutions based on Connect+, Big Security, Cloud Computing, Big Data, and other technical fields. Depending on the aspects, the knowledge and course system is divided into the following two parts:

- **Technical Certification System**

The technical certification system of the New H3C University represents technical talent standards of manufacturers and industries. With an emphasis on "professional, pragmatic, hands-on learning", it can help those it trains acquire the knowledge and skills required for creating solutions to network planning and system architecture design, implementation, and deployment, as well as conducting maintenance and troubleshooting in the fields of IT and network technology.

The technical certification system of the New H3C University has manifested as networking academy programs in universities and colleges, helping networking students enter the field of IT and network technology, having acquired the relevant abilities to find better jobs.

The certification training courses are developed by starting from relevant technical posts in each technical field. Analyses are performed on applied work tasks to clarify the knowledge and skills required and form detailed training courses. The final products have been strictly reviewed and tested to guarantee course quality.

- **Product Certification System**

The New H3C's product technical training covers the entire series of products and solutions of New H3C Group. Through training, the participants can understand the functional features of relevant products, and acquire the methods for installing, deploying, applying, operating, and maintaining products, so that the technicians assigned to channels and customers alike can better utilize and maintain H3C networking products.

Besides standard product technical training courses, the Technical Training Institute of New H3C University can also customize our training courses based on IT, networking products and solutions according to each customer's individual needs and cultivate inter-disciplinary product technical talents.

## **2. H3C Product Training Serial Courses**

The Technical Training Institute of New H3C University provides customers with the training courses for the entire series of products of New H3C Group and emphasizes the cultivation of student product-level abilities such as installation, deployment, configuration, commissioning, troubleshooting, operation, and maintenance.

The primary training courses include:

### **2.1. Training Courses for Router Products**

Course Name	Course Description	Course Duration (Days)
Fundamentals of routing	<ul style="list-style-type: none"> <li>● Basic concepts of routes, principles and configuration of static routes, principles and configuration of OSPF protocols.</li> <li>● ACL overview, type, operational performance, and typical networking configuration.</li> <li>● NAT working principles, implementation, verification and commissioning of configuration, and NAT advanced applications.</li> <li>● Fundamental principles of PPP protocol and configuration, fundamental principles: LCP, NCP negotiation, CHAP/PAP certification, and other processes.</li> <li>● Principles and configuration of HDLC protocol.</li> </ul>	3
Advanced routing technology	<ul style="list-style-type: none"> <li>● Principles and comparison of routing protocols, standby routing, and load sharing.</li> <li>● Principles, configuration and maintenance of OSPF routing protocol.</li> <li>● Principles and configuration of route filtering, routing policy, and import-routing.</li> <li>● Principles, configuration and maintenance of BGP routing protocol.</li> </ul>	3
Product training for H3C MSR series of routers	<ul style="list-style-type: none"> <li>● Functions and characteristics of H3C MSR series of routers.</li> <li>● Interface module matching of H3C MSR series of routers.</li> <li>● Configuration fundamentals, upgrading and daily maintenance of H3C MSR series of routers</li> <li>● Introduction to important features of H3C MSR series of routers.</li> </ul>	2
Product training for H3C MSR G2 series of routers	<ul style="list-style-type: none"> <li>● Functions and characteristics of H3C MSR G2 series of routers.</li> <li>● Interface module matching of H3C MSR G2 series of routers.</li> <li>● Upgrading and daily maintenance of H3C MSR G2 series of routers.</li> </ul>	1

Product training for H3C SR6600 series of routers	<ul style="list-style-type: none"> <li>● Introduction to software and hardware features, and system overview of SR6600 routers.</li> <li>● Protocol configurations and suggestions on routine maintenance of SR6600 routers.</li> <li>● Common faults and handling procedures of SR6600 routers.</li> </ul>	1
Product training for H3C SR6602-X & SR6600-X routers	<ul style="list-style-type: none"> <li>● Introduction to software and hardware features, and system overview of SR6602-X &amp; SR6600-X router products.</li> </ul>	0.5
Product training for H3C SR8800 series of routers	<ul style="list-style-type: none"> <li>● Introduction to software and hardware features, and system overview of SR8800 routers.</li> <li>● Protocol configurations and suggestions on routine maintenance of SR8800 routers.</li> <li>● Common faults and handling procedures of SR8800 routers.</li> </ul>	1
Product training for H3C CR16000 series of routers	<ul style="list-style-type: none"> <li>● Introduction to software and hardware features, and system overview of CR16000 routers.</li> <li>● Protocol configurations and suggestions on routine maintenance of CR16000 routers.</li> <li>● Common faults and handling procedures of CR16000 routers.</li> </ul>	1
Product training for H3C ICG 1000 & 1800	<ul style="list-style-type: none"> <li>● Introduction to software and hardware features, and system overview of ICG 1000/1800.</li> <li>● Protocol configurations and suggestions on routine maintenance of ICG 1000/1800.</li> <li>● Common faults and handling procedures of ICG 1000/1800.</li> </ul>	2
Product training for H3C ICG 2000 & 3000 & 5000	<ul style="list-style-type: none"> <li>● Introduction to software and hardware features, and system overview of ICG 2000 &amp; 3000 &amp; 5000 routers.</li> <li>● Protocol configurations and suggestions on routine maintenance of ICG 2000 &amp; 3000 &amp; 5000 routers.</li> <li>● Common faults and handling procedures of ICG 2000 &amp; 3000 &amp; 5000 routers.</li> </ul>	2

## 2.2. Training Courses of Switch Products

Course Name	Course Description	Course Duration (Days)
Technical fundamentals of switching	<ul style="list-style-type: none"> <li>● Basic network training: division of IP addresses.</li> <li>● Ethernet switch basis, Ethernet-related basic configuration, fundamental principles of layer 2 switches, principles and configuration of VLAN (802.1Q).</li> <li>● Common technical principles and configuration of Ethernet switch.</li> <li>● Principles and configuration of routing protocols.</li> </ul>	2
Advanced switching technology	<ul style="list-style-type: none"> <li>● Overview of virtual local area networks (VLAN), IEEE 802.1Q protocols, GARP &amp; GVRP protocols and configuration examples.</li> <li>● Concepts and configuration examples of VLAN routing; layer 3 switching principles, configuration of layer 3 switch RIP and OSPF protocols.</li> <li>● Fundamental principles and configuration examples of STP, RSTP and MSTP</li> <li>● Link aggregation of reliable technologies, fundamental principles and configuration examples of VRRP and others.</li> <li>● Introduction to the safety technology of the campus network, including the technical principles and configuration examples of AAA, Dotx certification, port security, network access control, and others.</li> <li>● Introduction to maintenance and management technologies of the campus network, including the technical principles and configuration examples of SNMP, mirror, and others.</li> </ul>	4
Product training for H3C E500-X series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C E500-X series of switches.</li> <li>● Software features and typical applications of H3C E500-X series of switch products.</li> <li>● Upgrading and daily maintenance of H3C E500-X series of switches.</li> </ul>	0.5
Product training for H3C S3100V3 series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S3100V3 series of switches.</li> <li>● H3C S3100V3 系列交换机产品软件特性与典型应用。</li> <li>● Software features and typical applications of H3C</li> </ul>	0.5



	<p>S3100V3 series of switch products.</p> <ul style="list-style-type: none"> <li>● H3C S3100V3 系列交换机升级与日常维护。</li> <li>● Upgrading and daily maintenance of H3C S3100V3 series of switches.</li> </ul>	
Product training for H3C S5120-EI-D series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5120-EI-D series of switches.</li> <li>● Software features and typical applications of H3C S5120-EI-D series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5120-EI-D series of switches.</li> </ul>	0.5
Product training for H3C S5120-LI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5120-LI series of switches.</li> <li>● Software features and typical applications of H3C S5120-LI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5120-LI series of switches.</li> </ul>	0.5
Product training for H3C S5120S-EI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5120S-EI series of switches.</li> <li>● Software features and typical applications of H3C S5120S-EI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5120S-EI series of switches.</li> </ul>	0.5
Product training for H3C S5120-SI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5120-SI series of switches.</li> <li>● Software features and typical applications of H3C S5120-SI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5120-SI series of switches.</li> </ul>	0.5
Product training for H3C S5130-EI-D series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5130-EI-D series of switches.</li> <li>● Software features and typical applications of H3C S5130-EI-D series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5130-EI-D series of switches.</li> </ul>	0.5
Product training for H3C S5130-EI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5130-EI series of switches.</li> <li>● Software features and typical applications of H3C S5130-EI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5130-EI series of switches.</li> </ul>	0.5

Product training for H3C S5130-HI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5130-HI series of switches.</li> <li>● Software features and typical applications of H3C S5130-HI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5130-HI series of switches.</li> </ul>	0.5
Product training for H3C S5130S-EI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5130S-EI series of switches.</li> <li>● Software features and typical applications of H3C S5130S-EI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5130S-EI series of switches.</li> </ul>	0.5
Product training for H3C S5130S-HI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5130S-HI series of switches.</li> <li>● Software features and typical applications of H3C S5130S-HI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5130S-HI series of switches.</li> </ul>	0.5
Product training for H3C S5130-SI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5130-SI series of switches.</li> <li>● Software features and typical applications of H3C S5130-SI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5130-SI series of switches.</li> </ul>	0.5
Product training for H3C S5150-EI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5150-EI series of switches.</li> <li>● Software features and typical applications of H3C S5150-EI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5150-EI series of switches.</li> </ul>	0.5
Product training for H3C S5560-EI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5560-EI series of switches.</li> <li>● Software features and typical applications of H3C S5560-EI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5560-EI series of switches.</li> </ul>	0.5
Product training for H3C S5560-HI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5560-HI series of switches.</li> <li>● Software features and typical applications of H3C S5560-HI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C</li> </ul>	0.5

	S5560-HI series of switches.	
Product training for H3C S5560-SI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5560-SI series of switches.</li> <li>● Software features and typical applications of H3C S5560-SI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5560-SI series of switches.</li> </ul>	0.5
Product training for H3C S5560X-EI series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5560X-EI series of switches.</li> <li>● Software features and typical applications of H3C S5560X-EI series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5560X-EI series of switches.</li> </ul>	0.5
Product training for H3C S5800-F series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S5800-F series of switches.</li> <li>● Software features and typical applications of H3C S5800-F series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S5800-F series of switches.</li> </ul>	0.5
Product training for H3C S6300-F series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S6300-F series of switches.</li> <li>● Software features and typical applications of H3C S6300-F series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S6300-F series of switches.</li> </ul>	0.5
Product training for H3C S6300 series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S6300 series of switches.</li> <li>● Software features and typical applications of H3C S6300 series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S6300 series of switches.</li> </ul>	0.5
Product training for H3C S6820 series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S6820 series of switches.</li> <li>● Software features and typical applications of H3C S6820 series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S6820 series of switches.</li> </ul>	0.5

Product training for H3C S6900-F series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S6900-F series of switches.</li> <li>● Software features and typical applications of H3C S6900-F series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S6900-F series of switches.</li> </ul>	0.5
Product training for H3C S6920 series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S6920 series of switches.</li> <li>● Software features and typical applications of H3C S6920 series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S6920 series of switches.</li> </ul>	0.5
QACL training of H3C S7500E V7 series of switches	<ul style="list-style-type: none"> <li>● Fundamental principles and configuration of QoS/ACL of H3C S7500E V7 series of switches.</li> <li>● Typical applications of QoS/ACL of H3C S7500E V7 series of switches.</li> </ul>	0.5
Product training for H3C S7500E V7 series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S7500E V7 series of switches.</li> <li>● Software features and typical applications of H3C S7500E V7 series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S7500E V7 series of switches.</li> </ul>	0.5
Product training for H3C S7500E-XS series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S7500E-XS series of switches.</li> <li>● Software features and typical applications of H3C S7500E-XS series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S7500E-XS series of switches.</li> </ul>	0.5
Product training for H3C S7500X series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S7500X series of switches.</li> <li>● Software features and typical applications of H3C S7500X series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S7500X series of switches.</li> </ul>	0.5
Product training for H3C S9900 series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S9900 series of switches.</li> <li>● Software features and typical applications of H3C S9900 series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S9900 series of switches.</li> </ul>	0.5

Product training for H3C S10500X series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S10500X series of switches.</li> <li>● Software features and typical applications of H3C S10500X series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S10500X series of switches.</li> </ul>	0.5
Product training for H3C S12500F-AF series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S12500F-AF series of switches.</li> <li>● Software features and typical applications of H3C S12500F-AF series of switch products.</li> <li>● Upgrading and daily maintenance of H3C S12500F-AF series of switches.</li> </ul>	0.5
Product training for H3C S12500-F series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S12500-F series of switches.</li> <li>● Software features and typical applications of H3C S12500-F series of switch products.</li> <li>● Upgrading and routine maintenance of H3C S12500-F series of switches.</li> </ul>	0.5
Product training for H3C S12500X-AF series of switches	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C S12500X-AF series of switches.</li> <li>● Software features and typical applications of H3C S12500X-AF series of switch products.</li> <li>● Upgrading and routine maintenance of H3C S12500X-AF series of switches.</li> </ul>	0.5

### 2.3. Training Courses of Security Products

Course Name	Course Description	Course Duration (Days)
Product training for H3C security firewalls	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of SecPath series of firewalls.</li> <li>● Introduction and configurations of access control and message filtering features of SecPath series of firewalls.</li> <li>● Introduction and configurations of ASPF, attack defense, content filtering, mail filtering, and blacklist functions of SecPath series of firewalls.</li> <li>● Introduction and configurations of Nat of SecPath series of firewalls.</li> <li>● Introduction and configurations of graphical management platform and log system of SecPath</li> </ul>	3

	<p>series of firewalls.</p> <ul style="list-style-type: none"> <li>● Introduction and configurations of networking and operation modes (routing mode/transparent mode/hybrid mode), hot standby, and load sharing of SecPath series of firewalls.</li> <li>● Protocol configurations and suggestions on routine maintenance of SecPath series of firewalls.</li> <li>● Common faults and handling procedures of SecPath series of firewalls.</li> </ul>	
<p>Product training for H3C high-end firewalls</p>	<ul style="list-style-type: none"> <li>● Analysis of new requirements for network security.</li> <li>● Introduction to functions and typical networking of high-end firewall products.</li> <li>● Introduction to basic firewall concepts: virtual devices, security zones, and sessions.</li> <li>● Description of basic forwarding processes of high-end firewalls.</li> <li>● Introduction to basic forwarding in transparent mode of SecPath F1000E.</li> <li>● Introduction to Inline forwarding in transparent mode of SecPath F1000E.</li> <li>● Introduction to transparent transmission and forwarding in routing mode and hybrid mode of SecPath F1000E layer 2 VLAN.</li> <li>● Introduction to basic forwarding in transparent mode and forwarding in routing mode of SecBlade.</li> <li>● Description of service application of the GE interface of the SecBlade module.</li> <li>● Functional configuration of packet filtering, NAT, attack defense, and other features and troubleshooting.</li> <li>● Troubleshooting of other common problems.</li> </ul>	<p>2</p>
<p>Product training for H3C security VPN</p>	<ul style="list-style-type: none"> <li>● Features and basic maintenance of SecPath series of products and client iNode.</li> <li>● Principles of VPNs.</li> <li>● Security algorithms.</li> <li>● Principles and configurations of IKE and PKI.</li> <li>● Principles and configurations of IPSEC.</li> <li>● Principles and configuration of L2TP and GRE.</li> <li>● Principles and configurations of dual-system backup and load sharing of VPNs.</li> <li>● Routine maintenance measures for SecPath series of products.</li> </ul>	<p>5</p>

	<ul style="list-style-type: none"> <li>● Principles and configurations of SSL VPN.</li> <li>● Introduction to SSL structure.</li> <li>● Principles of SSL record protocols and SSL handshake protocols.</li> <li>● Analysis for remote security access requirements.</li> <li>● Features of SecPath SSL VPNs</li> <li>● Typical networking and configurations of SSL VPNs</li> </ul>	
Product training for H3C security ACG (Application Control Gateway)	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of SecPath series ACG.</li> <li>● Upgrade, management, and other basic configurations of SecPath series ACG.</li> <li>● Introduction and configurations of bandwidth management of SecPath series of ACG products.</li> <li>● Introduction and configurations of URL filtering of SecPath series of ACG products.</li> <li>● Introduction and configurations of behavior auditing of SecPath series of ACG products.</li> <li>● Introduction and configurations of content monitoring of SecPath series of ACG products.</li> <li>● Introduction and configurations of QoS of SecPath series of ACG products.</li> <li>● Introduction to ACG Manager.</li> </ul>	2
Product training for H3C IPS (Intrusion Prevention System)	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of SecPath series IPS.</li> <li>● Upgrade, management, and other basic configurations of SecPath series IPS.</li> <li>● Introduction and configurations of attack defense of SecPath series of IPS products.</li> <li>● Introduction and configurations of bandwidth management of SecPath series of IPS products.</li> <li>● Introduction and configurations of URL filtering of SecPath series of IPS products.</li> <li>● Introduction and configurations of virus defense of SecPath series of IPS products.</li> </ul>	1
Product training for H3C security UTM (Unified Threat Management)	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of SecPath series of UTM products.</li> <li>● Upgrade, management, and other basic configurations of SecPath series of UTM products.</li> <li>● Configuration of basic forwarding in transparent mode (Layer 2 forwarding) of SecPath series of UTM products.</li> </ul>	2

	<ul style="list-style-type: none"> <li>● Basic configurations of Inline forwarding (Layer 2 forwarding) of SecPath series of UTM products.</li> <li>● Configurations of basic forwarding in routing mode (Layer 3 forwarding) of SecPath series of UTM products.</li> <li>● Basic configurations of forwarding in hybrid mode of SecPath series of UTM products.</li> <li>● Configuration of Layer 2 VLAN transparent transmission of SecPath series of UTM products.</li> <li>● Configurations of basic forwarding in double port routing mode of SecPath series of UTM products.</li> <li>● Configuration of IPS in-deep prevention of SecPath series of UTM products.</li> <li>● Configuration of virus defense of SecPath series of UTM products.</li> <li>● Configurations of bandwidth management of SecPath series of UTM products.</li> </ul>	
Product training for H3C SecBlade LB	<ul style="list-style-type: none"> <li>● Basic principles of load balancers</li> <li>● Function introduction of SecBlade LB products.</li> <li>● Basic introduction and configurations of SecBlade LB server load balancers.</li> <li>● Basic introduction and configurations of SecBlade LB link load balancers.</li> <li>● Typical networking and application of SecBlade LB.</li> <li>● Basic maintenance and handling of common problems of SecBlade LB.</li> </ul>	2
Training for H3C Comware V7 firewalls	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of H3C Comware V7 firewalls.</li> <li>● Introduction and configurations of security strategies of H3C Comware V7 firewalls.</li> <li>● Introduction and configurations of ASPF, attack defense, in-depth security detection, and VPN functions of H3C Comware V7 firewalls.</li> <li>● Introduction and configurations of Nat of H3C Comware V7 firewalls.</li> <li>● Introduction and configurations of graphical management platform and log system of H3C Comware V7 firewalls.</li> <li>● Introduction and configurations of networking of H3C Comware V7 firewalls.</li> <li>● Protocol configurations and suggestions on routine</li> </ul>	3



	<p>maintenance of H3C Comware V7 firewalls.</p> <ul style="list-style-type: none"> <li>● Common faults and handling procedures of H3C Comware V7 firewalls.</li> </ul>	
Product training for H3C Comware V7 load balancers	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of H3C Comware V7 load balancers.</li> <li>● Function introduction and configurations of server load balancers.</li> <li>● Function introduction and configurations of link load balancers.</li> <li>● Introduction and configurations of networking of H3C Comware V7 load balancers.</li> <li>● Protocol configurations and suggestions on routine maintenance of H3C Comware V7 load balancers.</li> <li>● Common faults and handling procedures of H3C Comware V7 load balancers.</li> </ul>	3
Product training for H3C Comware V7 intrusion prevention	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of H3C Comware V7 intrusion prevention.</li> <li>● Introduction and configurations of anti-attack, anti-virus, data filtering, URL filtering, content filtering, and bandwidth management functions.</li> <li>● Introduction and configurations of graphical management platform and log system of H3C Comware V7 intrusion prevention.</li> <li>● Introduction and configurations of networking of H3C Comware V7 intrusion prevention.</li> <li>● Protocol configurations and suggestions on routine maintenance of H3C Comware V7 intrusion prevention.</li> <li>● Common faults and handling procedures of H3C Comware V7 intrusion prevention.</li> </ul>	3
Training for H3C SecPath A2000 series O&M auditing systems	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of H3C SecPath A2000 series O&amp;M auditing systems</li> <li>● Function introduction and configurations of character-based and graphical operation and maintenance modes.</li> <li>● Audit of O&amp;M results.</li> <li>● Introduction and configurations of networking of H3C SecPath A2000 series O&amp;M auditing systems.</li> <li>● Protocol configurations and suggestions on routine maintenance of H3C SecPath A2000 series O&amp;M</li> </ul>	1

	<p>auditing systems.</p> <ul style="list-style-type: none"> <li>● Common faults and handling procedures of H3C SecPath A2000 series O&amp;M auditing systems.</li> </ul>	
Product training for H3C SecPath ACG1000 series application gateways	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of H3C SecPath ACG1000 series application gateways.</li> <li>● Introduction and configurations of application auditing, URL filtering, and traffic management functions of H3C SecPath ACG1000 series application gateways.</li> <li>● Introduction and configurations of authentication method of H3C SecPath ACG1000 series application gateways.</li> <li>● Introduction and configurations of management platform and log system of H3C SecPath ACG1000 series application gateways.</li> <li>● Introduction and configurations of networking of H3C SecPath ACG1000 series application gateways.</li> <li>● Protocol configurations and suggestions on routine maintenance of H3C SecPath ACG1000 series application gateways.</li> </ul> <p>Common faults and handling procedures of H3C SecPath ACG1000 series application gateways.</p>	3
Training for H3C SecPath D2000 series of database auditing systems	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of H3C SecPath D2000 series database auditing systems.</li> <li>● Introduction and configurations of networking of H3C SecPath D2000 series database auditing systems.</li> <li>● Protocol configurations and suggestions on routine maintenance of H3C SecPath D2000 series database auditing systems.</li> <li>● Common faults and handling procedures of H3C SecPath D2000 series database auditing systems.</li> </ul>	1
Training for H3C SecPath GAP2000 series of security isolation and information exchange systems	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of H3C SecPath GAP2000 series security isolation and information exchange systems.</li> <li>● Function configuration of H3C SecPath GAP2000 series security isolation and information exchange systems</li> <li>● Introduction and configurations of networking of H3C SecPath GAP2000 series of security isolation</li> </ul>	1

	<p>and information exchange systems.</p> <ul style="list-style-type: none"> <li>● Protocol configurations and suggestions on routine maintenance of H3C SecPath GAP2000 series of security isolation and information exchange systems.</li> <li>● Common faults and handling procedures of H3C SecPath GAP2000 series of security isolation and information exchange systems.</li> </ul>	
<p>Training for H3C SecPath M9000 series of integrated security gateways</p>	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of H3C SecPath M9000 series of integrated security gateways.</li> <li>● Introduction and configurations of security strategies of H3C SecPath M9000 series of integrated security gateways</li> <li>● Introduction and configurations of ASPF, attack defense, in-depth security detection and VPN functions of H3C SecPath M9000 series of integrated security gateways.</li> <li>● Introduction and configurations of Nat of H3C SecPath M9000 series integrated security gateways.</li> <li>● Introduction and configurations of graphical management platform and log system of H3C SecPath M9000 series of integrated security gateways.</li> <li>● Introduction and configurations of networking of H3C SecPath M9000 series of integrated security gateways.</li> <li>● Protocol configurations and suggestions on routine maintenance of H3C SecPath M9000 series of integrated security gateways.</li> <li>● Common faults and handling procedures of H3C SecPath M9000 series integrated security gateways.</li> </ul>	<p>3</p>
<p>Training for H3C WEB Application Firewalls</p>	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction to software and hardware of H3C WEB Application Firewalls.</li> <li>● Introduction and configurations of networking of H3C WEB Application Firewalls.</li> <li>● Protocol configurations and suggestions on routine maintenance of H3C WEB Application Firewalls.</li> <li>● Common faults and handling procedures of H3C WEB Application Firewalls.</li> </ul>	<p>1</p>

Training for H3C vulnerability scanning products	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction of H3C vulnerability scanning products.</li> <li>● Installation and configuration of H3C vulnerability scanning products.</li> <li>● Protocol configurations and suggestions on routine maintenance of H3C vulnerability scanning products.</li> <li>● Common faults and handling procedures of H3C vulnerability scanning products.</li> </ul>	1
Training for H3C webpage tamper-proofing products	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction of H3C webpage tamper-proofing products.</li> <li>● Installation and configuration of H3C webpage tamper-proofing products</li> <li>● Protocol configurations and suggestions on routine maintenance of H3C webpage tamper-proofing products.</li> <li>● Common faults and handling procedures of H3C webpage tamper-proofing products.</li> </ul>	1
Training for H3C cloud security monitoring center products	<ul style="list-style-type: none"> <li>● Technical introduction and product introduction of H3C cloud security monitoring center products.</li> <li>● Installation and configuration of H3C cloud security monitoring center products.</li> <li>● Protocol configurations and suggestions on routine maintenance of H3C cloud security monitoring center products.</li> <li>● Common faults and handling procedures of H3C cloud security monitoring center products.</li> </ul>	1

#### 2.4. Training Courses of Wireless Products

Course Name	Course Description	Course Duration (Days)
Product introduction of H3C Anchor AP series and product training in start guide	<ul style="list-style-type: none"> <li>● Product forms and hardware structures of H3C Anchor AP series.</li> <li>● Typical applications and technical solutions of H3C Anchor AP series of products.</li> </ul>	0.5

Product introduction of H3C UAP series and product training in start guide	<ul style="list-style-type: none"> <li>● Product introduction of H3C UAP series and product forms and hardware structures in start guide.</li> <li>● Product introduction of H3C UAP series and software features and typical applications in start guide.</li> <li>● Product introduction of H3C UAP series and upgrade and routine maintenance in start guide.</li> </ul>	0.5
Product introduction of H3C V5 wireless controllers and product training in start guide	<ul style="list-style-type: none"> <li>● Product introduction of H3C V5 wireless controllers and product forms and hardware structures in start guide.</li> <li>● Product introduction of H3C V5 wireless controllers and software features and typical applications in start guide.</li> <li>● Product introduction of H3C V5 wireless controllers and upgrade and routine maintenance in start guide.</li> </ul>	0.5
Product introduction of H3C Bluetooth Heart and product training in start guide	<ul style="list-style-type: none"> <li>● Product introduction of H3C Bluetooth Heart and product forms and hardware structures in start guide.</li> <li>● Product introduction of H3C Bluetooth Heart and software features and typical applications in start guide.</li> <li>● Product introduction of H3C Bluetooth Heart and upgrade and routine maintenance in start guide.</li> </ul>	0.5
Introduction of H3C wireless rail transit products and product training in start guide	<ul style="list-style-type: none"> <li>● Categories and forms of H3C wireless rail transit products.</li> <li>● Typical application solutions and deployment knowledge of H3C wireless rail transit products.</li> </ul>	0.5
Introduction of H3C IoT LoRa products and product training in start guide	<ul style="list-style-type: none"> <li>● Categories and forms of H3C IoT LoRa products.</li> <li>● Typical application solutions and beginning maintenance knowledge of H3C IoT LoRa products.</li> </ul>	0.5

## 2.5. Training Courses of New Network Products

Course Name	Course Description	Course Duration (Days)
Training for H3C NFV Orchestrator software products	<ul style="list-style-type: none"> <li>● Functions and characteristics of H3C NFV Orchestrator software products.</li> <li>● Deployment, basic configurations, and routine maintenance of H3C NFV Orchestrator software</li> </ul>	1

	products.	
Training for H3C NFV series of software products	<ul style="list-style-type: none"> <li>● Functions and characteristics of H3C NFV series of products.</li> <li>● Deployment, basic configurations, and routine maintenance of H3C NFV series of products.</li> </ul>	1
Training for H3C S1020V virtue switches	<ul style="list-style-type: none"> <li>● Functions and characteristics of H3C S1020V virtue switches.</li> <li>● StDeployment, basic configurations, and routine maintenance of H3C S1020V virtue switches.</li> </ul>	1
Training of H3C VCF Controller software products	<ul style="list-style-type: none"> <li>● Functions and characteristics of H3C VCF Controller software products.</li> <li>● StDeployment, basic configurations, and routine maintenance of H3C VCF Controller software products.</li> </ul>	1
Training of H3C VNF Manager software products	<ul style="list-style-type: none"> <li>● Functions and characteristics of H3C VNF Manager software products.</li> <li>● StDeployment, basic configurations, and routine maintenance of H3C VNF Manager software products.</li> </ul>	1

## 2.6. Training Courses of Software Products

Course Name	Course Description	Course Duration (Days)
Training for CAMS products	<ul style="list-style-type: none"> <li>● Introduction to functions and characteristics of CAMS products.</li> <li>● Introduction to system structures, and installation and maintenance of CAMS products.</li> <li>● Introduction to AAA, Radius, and other common authentication methods.</li> <li>● Introduction to typical networking and configuration of CAMS</li> </ul>	2
Product training for the iMC platform	<ul style="list-style-type: none"> <li>● Installation and deployment methods of iMC.</li> <li>● Topology management of the iMC platform.</li> <li>● Warning management of the iMC platform.</li> <li>● Performance monitoring and management of the iMC platform.</li> <li>● Specific functions and operation methods of iMC iCC (Intelligent Configuration Center).</li> <li>● Specific functions and operation methods of iMC</li> </ul>	1.5

	<p>ACLM (ACL Manager).</p> <ul style="list-style-type: none"> <li>● Specific functions and operation methods of iMC VLANM (VLANM Manager).</li> </ul>	
Product training for iMC EIA&EAD	<ul style="list-style-type: none"> <li>● Principle and functions of iMC EIA (End user Intelligent Access).</li> <li>● Solutions to iMC EAD (Endpoint Admission Defense).</li> </ul>	3.5
Product training for iMC UBA	<ul style="list-style-type: none"> <li>● Specific functions and operation methods of iMC UBA (User Behavior Audit).</li> </ul>	0.5
Product training for iMC NTA	<ul style="list-style-type: none"> <li>● Specific functions and operation methods of iMC NTA (Network Traffic Analysis).</li> </ul>	0.5
Product training for iMC EPM&EoCM	<ul style="list-style-type: none"> <li>● Specific functions and operation methods of iMC EPM (EPM Manager).</li> <li>● Specific functions and operation methods of iMC EoCM (EPON Manager).</li> </ul>	1
Product training for iMC WSM	<ul style="list-style-type: none"> <li>● Specific functions and operation methods of iMC WSM (Wireless Service Manager).</li> </ul>	0.5
Product training for iMC MVM	<ul style="list-style-type: none"> <li>● Specific functions and operation methods of iMC MVM (MPLS VPN Manager).</li> </ul>	0.5
Product training for iMC QoS	<ul style="list-style-type: none"> <li>● Specific functions and operation methods of iMC QoS (QoS Manager).</li> </ul>	0.5
Product training for iMC iAR	<ul style="list-style-type: none"> <li>● Specific functions and operation methods of iMC iAR (Intelligent Analysis Report).</li> </ul>	0.5
Product training for iMC BIMS	<ul style="list-style-type: none"> <li>● Overview of iMC BIMS components.</li> <li>● Main functions of iMC BIMS components.</li> </ul>	0.5
Product training for iMC APM	<ul style="list-style-type: none"> <li>● Installation and deployment methods of iMC.</li> <li>● Introduction to architecture and realization principle of iMC APM products.</li> <li>● Introduction to functions and characteristics of iMC APM products.</li> <li>● Typical configuration and routine maintenance of iMC APM products.</li> </ul>	1
Product training for iMC BSM	<ul style="list-style-type: none"> <li>● Deployment of iMC BSM products.</li> </ul>	0.5

	<ul style="list-style-type: none"> <li>● Basic configurations of iMC BSM products.</li> <li>● Routine maintenance of iMC BSM products.</li> </ul>	
Product training for iMC CMDB	<ul style="list-style-type: none"> <li>● Installation and deployment methods of iMC CMDB.</li> <li>● Introduction to architecture and realization principle of iMC CMDB products.</li> <li>● Introduction to functions and characteristics of iMC CMDB products.</li> <li>● Typical configurations and routine maintenance of iMC CMDB products.</li> </ul>	0.5
Product training for iMC ITSM	<ul style="list-style-type: none"> <li>● Introduction to architecture and realization principle of iMC ITSM products.</li> <li>● Introduction to functions and characteristics of iMC ITSM products.</li> <li>● Typical configurations and routine maintenance of iMC ITSM products.</li> </ul>	1.5
Training of H3C SecCenter series of products	<ul style="list-style-type: none"> <li>● Introduction to products and networking of SecCenter series of products.</li> <li>● Introduction to functions of SecCenter A1000.</li> <li>● Management and applications of SecCenter A1000.</li> <li>● Unified receiving and analysis of logs.</li> <li>● Device management modes, account management, and license management.</li> <li>● Trends in development of security threats.</li> <li>● Introduction, networking, and configurations of IPS Manager products.</li> <li>● Analysis for current traffic management status.</li> <li>● Functions and characteristics of ACG (application control gateway).</li> <li>● Introduction to ACG Manager.</li> <li>● Working principles and operations of ACG Manager.</li> <li>● Networking and troubleshooting of ACG Manager.</li> </ul>	2
Introduction and configurations of iMC SecCenter A2000 (SOC) products	<ul style="list-style-type: none"> <li>● Introduction to architecture and realization principle of iMC SecCenter A2000 (SOC) products.</li> <li>● Introduction to functions and characteristics of iMC SecCenter A2000 (SOC) products.</li> <li>● Typical configurations and routine maintenance of iMC SecCenter A2000 (SOC) products.</li> </ul>	1
Introduction of iMC SSM products	<ul style="list-style-type: none"> <li>● Introduction to architecture and realization principle of iMC SSM products.</li> <li>● Introduction to functions and characteristics of iMC SSM products.</li> </ul>	0.75



	<ul style="list-style-type: none"> <li>• Typical configurations and routine maintenance of iMC SSM products.</li> </ul>	
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## 2.7. Training Courses of Server Storage Products

Course Name	Course Description	Course Duration (Days)
Product training for H3C UIS R390 G2 servers	<ul style="list-style-type: none"> <li>• Functions and characteristics of H3C UIS R390X G2 servers.</li> <li>• Software configuration and hardware upgrade of H3C UIS R390X G2 servers.</li> <li>• Routine maintenance of H3C UIS R390X G2 servers.</li> </ul>	1