



HP Certified Professional

Building HP ProCurve Campus LANs

HP2-Z04

Exam Preparation Guide

Purpose

The intent of this guide is to set expectations about the context of the exam and to help candidates prepare for it. Recommended training to prepare for this exam can be found at The Learning Center. It is important to note that although training is recommended for exam preparation, successful completion of the training alone does not guarantee that you will pass the exam. In addition to training, exam items are based on knowledge gained from on-the-job experience and application as well as other supplemental reference material that may be specified in this guide.

HP certification

The HP Certified Professional community is a network of qualified HP channel partners, customers, and employees who have taken the courses and studied the associated reference material necessary to pass the certification exams that earn HP Certified Professional credentials. The exams offered through the HP Certified Professional program validate the skills and assure the competency of HP certified professionals. The knowledge and experience required to pass HP certification exams ensure that HP certified professionals are respected and valued throughout the industry.

Audience

This exam is for Cisco trained and certified engineers at expert and professional levels with specialization in routing and switching. Examples of job roles include but are not limited to:

- ⑤ Private consultants and implementers focused on networking that currently hold a CCIE, CCNP, or other Cisco Professional or Expert level certification.
- ⑤ Systems Architects or Technical Consultants who work for businesses that resells networking solutions and who currently hold a CCIE, CCNP, or other Cisco Professional or Expert level certification.

- ⑤ Systems Architects or Technical Consultants who work for businesses that purchases networking solutions and who currently hold a CCIE, CCNP, or other Cisco Professional or Expert level certification.

Minimum qualifications

To pass this exam, you should have at least 2 years of experience in implementing many types of layer 2 and layer 3 networks with Cisco routing and switching solutions. The exam is based on an assumed level of industry-standard knowledge that must be understood in order to gain from the training; hands-on experience along with your Cisco certifications will be extremely beneficial.

Learners are **strongly** encouraged to review the downloadable course materials from the WBT.

You should also be knowledgeable about:

- ⑤ Multiple Instance Spanning Tree (commonly referenced as 802.1s)
- ⑤ Link Aggregation Protocols
- ⑤ 802.11 Wireless Technologies
- ⑤ IPv4 OSPF
- ⑤ AAA Security Implementation and Function
- ⑤ WAN Technologies
- ⑤ IPv4 Multicast Protocol Operation
- ⑤ 802.1Q Virtual LANs
- ⑤ DHCP Snooping and ARP Protection
- ⑤ Virtual Router Redundancy Protocol (VRRP)
- ⑤ Configuration of ACLs

Relevant certifications

After passing this exam, your achievement may be applied toward more than one certification. To determine which certifications will be credited with this achievement, log into The Learning Center and view the certifications listed on the exam's More Details tab. You may be on your way to achieving additional HP certifications.

Exam details

The following are details about the exam:

- ⑤ **Number of items:** 60
- ⑤ **Item types:** multiple choice, drag-and-drop

- ⑤ **Exam Time:** 75 minutes
- ⑤ **Passing Score:** 74%

Comments on the exam

During the exam, participants can make specific comments about the items (i.e., accuracy, appropriateness to audience, etc). HP welcomes these comments as part of our continuous improvement process.

Exam content

The following testing objectives represent the specific areas of content covered in the exam. Use this outline to guide your study and to check your readiness for the exam. The exam measures your understanding of these areas.

	Objectives
1	ProCurve Interoperability (6%)
2	Intro to Switch Management (8%)
•	Basic Switch Management
3	Improving Capacity, Management and Availability (12%)
•	Improving Capacity with Link Aggregation
•	Centralized management control
•	Providing Layer 2 redundancy
•	Layer 3 Redundancy
4	Wireless Technology (6%)
•	Wireless Technology Basics
5	Security Technology (9%)
•	Port Based Authentication
•	Encryption Technology
•	Network Management Security
6	Dynamic Routing (8%)
•	RIP
•	OSPF
7	WAN Technology (2%)
•	WAN Basics
8	Multicast Routing (2%)

	Objectives
	<ul style="list-style-type: none"> • Multicast Basics, PIM and IGMP
9	Virtual LANs (2%)
	<ul style="list-style-type: none"> • VLANs
10	ProCurve Switch Management (17%)
	<ul style="list-style-type: none"> • Use the ProCurve CLI to perform basic configuration and management
	<ul style="list-style-type: none"> • View and save multiple configuration files on a ProCurve switch
	<ul style="list-style-type: none"> • Use the CLI of ProCurve switches to configure and verify VLANs
	<ul style="list-style-type: none"> • Configure LLDP on a ProCurve switch
	<ul style="list-style-type: none"> • Enable IP routing on a ProCurve switch
	<ul style="list-style-type: none"> • Install and perform initial configuration of ProCurve Manager Plus
	<ul style="list-style-type: none"> • Enable secure management using SNMPv3, SSH, and SSL
	<ul style="list-style-type: none"> • Configure RADIUS authentication for switch management
11	Network Protection (3%)
	<ul style="list-style-type: none"> • Enable DHCP Snooping and ARP Protection
	<ul style="list-style-type: none"> • Enable connection-rate filtering
	<ul style="list-style-type: none"> • Configure Traffic Mirroring on ProCurve switches
12	Increasing Capacity and Availability (7%)
	<ul style="list-style-type: none"> • Configure link aggregation on ProCurve switches
	<ul style="list-style-type: none"> • Enable and configure Multi-Instance Spanning Tree (MSTP) On ProCurve switches
	<ul style="list-style-type: none"> • Configure the Virtual Router Redundancy Protocol on ProCurve switches to enable default gateway redundancy
13	Dynamic Routing - OSPF, Port Mirrorg, QoS, & Acs Cntrl Lists (8%)
	<ul style="list-style-type: none"> • Configure and monitor OSPF on ProCurve ProVision ASIC switches
	<ul style="list-style-type: none"> • Design and configure a QOS solution using ProCurve switches, including Layer 2 and Layer 3 prioritization and LLDP-MED,

	Objectives
•	Design, configure, and monitor a multicast solution using ProCurve switches
•	Configure ACLs on ProCurve switches
14	Wired Network Security (10%)
•	Configure 802.1X user authentication on ProCurve devices
•	Configure Web-based user authentication on ProCurve switches and wireless devices
•	Manage user access with ProCurve Identity Driven Manager
•	Configure MAC authentication for devices that cannot support interactive logon
•	Describe concepts and operation of 802.1X

Training

Recommended training to prepare for this exam is accessible from this exam's page in The Learning Center. See the exam attachment, Supporting courses, to view and register for the courses.

You are not required to take the associated courses; however, HP strongly recommends that you complete the training *and thoroughly review all course materials and documents before taking the exam*. Sufficient on-the-job experience may also be required.

Studies conducted by HP and Prometric show that a combination of course attendance, self-study, and on-the-job experience maximizes the likelihood of passing the exam on the first attempt.

Additional study references

All reference material required to improve your capability for taking this exam are included in the WBT course referenced as HP ProCurve Campus LANs.

Exam registration

To register for this exam, please go to the exam's description in The Learning Center: <http://www.hp.com/go/partnerlearning>

Conclusion

HP wishes you success in the HP Certified Professional Program and in passing the exam for which you are preparing.