Purpose of the Exam Prep Guide

The intent of this guide is to set expectations about the content and the context of the exam and to help candidates prepare for the exam. In this guide, you will find recommended HP training courses, reference and study material to assist you in preparing for the exam.

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

Audience

This exam is for system engineer or networking engineer with 1 year of experience designing intermediate switched and basic routing networks. Examples of job roles: Reseller and customer network specialists, System Engineers, Network Engineers, HP Field System Engineers, HP Services Technical Support and Field Services Engineers.

General areas of content include:

- Technology Overview
- HP ProCurve Product Overview
- Device Configuration and Monitoring
- Configuring VLANs
- Increasing Capacity and Improving Availability
- Enabling Convergence
- HP ProCurve Manager and HP ProCurve Manager Plus
- Network Design and Deployment
- Layer 2 Troubleshooting
Certification Requirements

The Adaptive EDGE Fundamentals exam is the core requirement to be certified as an Accredited Integration Specialist (AIS) – HP ProCurve Networking.

The AIS – HP ProCurve Networking designation provides certification that an individual has the skills to design, configure, integrate and support intermediate switching and basic routing environments.

Prerequisites

The following certification requirements are prerequisites for the AIS – HP ProCurve Networking Certification.

- none

Exam Details

At the beginning of the exam, you will be asked to answer several survey questions. The survey has been designed to assist the exam development team in accurately profiling test results and to improve future exams. Your honest responses will assist the exam team in properly tailoring this exam to the appropriate audience.

- **Number of items**: 71
- **Item types**: multiple choice, drag and drop
- **Time commitment**: 105 minutes
- **Passing Score**: 67%
- **Reference Material**: No on-line or hard copy reference material will be allowed at the testing site.

Note: This exam contains 61 scored items and 10 unscored items. By collecting data on the unscored items, we have the ability to analyze test results and possibly alter the exam in the future to improve the quality.

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.
Recommended Training and Study References

This section lists training courses and documents that can help you acquire a majority of the knowledge and skills needed to pass the exam. You must also gain the practical experience outlined in this guide.

You are not required to take the courses listed in this section. However, HP strongly recommends that you attend the classes, participate in class labs, and thoroughly review all course material and documents before taking the exam, even if you believe you have sufficient on-the-job experience.

Instructor-Led Training

Use the information in this guide and the practical experience you have gained to determine your need for the instructor-led training.

<table>
<thead>
<tr>
<th>Title</th>
<th>Course Number</th>
<th>How to Enroll</th>
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Documentation

<table>
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<th>Title</th>
<th>Section Title</th>
<th>Source/Order Number</th>
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Other Reference Material

<table>
<thead>
<tr>
<th>Title</th>
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<th>Source</th>
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<tr>
<td>FAQs, Manuals, Configuration Examples, etc.</td>
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<td><a href="http://www.hp.com/rnd/support/">http://www.hp.com/rnd/support/</a></td>
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Sample Test Items

The sample test items give you a preview of what the actual test items will look like. It is important to note that these items WILL NOT be on the exam itself. However, they are representative of the actual items, and they should help you become familiar with the format and complexity of the test items. These sample test items are not a check for readiness.

The questions are numbered sequentially on the left side. The numbers on the right side (for example, 648.1.2.e.1) denote the exam number (648) followed by the module of the course and the objective that the question pertains to. This will help you locate the material to study.

#1 648.1.1.f.1
You must check the length of the 100Base-T network segments on a customer network. What is the maximum permitted length?
A. 10 meters  
B. 100 meters  
C. 220 meters  
D. 550 meters

#2 648.1.2.f.1
You must develop the IP addressing scheme for a small network that will use a Class C private IP address range. Identify the Class C private IP network.
A. 192.001.5.0  
B. 192.150.5.0  
C. 192.168.5.0  
D. 192.200.5.0
A small company must segment its flat network into multiple VLANs in order to accommodate growth and improve network performance. In order to interconnect VLANs, you have recommended HP ProCurve 5300xl switches as the core devices for the new infrastructure. However, a member of the company’s procurement team wants to use the company’s existing HP ProCurve 4000m switches as core devices. Which statement describes why this solution is not possible?
A. The 4000m lacks sufficient port density.
B. The 4000m does not offer any layer 3 routing functionality.
C. The 4000m does not support Gigabit connectivity.
D. The 4000m does not support remote management.

You must enter the global configuration level at the CLI of an HP ProCurve switch, but can remember only that the command for this task begins with "co." How can you access help to learn the rest of the command?
A. Type “co?” and <ENTER>
B. Type “co:help” and <ENTER>
C. Type “co” and <ENTER>
D. Type “co” and <TAB>

The menu interface enables you to perform many configuration and monitoring tasks on HP ProCurve switches. What tasks can be performed at the main menu? Select TWO.
A. access the CLI
B. change VLAN port assignments
C. view event log
D. enable spanning tree
E. enable port trunking
#6 648.4.1.g.1

For security reasons, you must segment the network at a law office into separate networks for legal and clerical personnel. Which technology supported by HP ProCurve switches enables you to fulfill this requirement?

A. switch meshing
B. spanning tree
C. VLANs
D. 802.1p prioritization

#7 648.4.2.e.1

You need to delete VLAN 50 from the HP ProCurve switches in a small office building because the tenant assigned to the VLAN has vacated the premises. When you issue the command no vlan 50, you receive an error that says "Unable to delete VLAN. Action will result in some orphaned ports." What additional step must you take before deleting the VLAN?

A. Assign the ports in VLAN 50 to another VLAN.
B. Restart the switch to initialize the new VLAN configuration.
C. Check to make sure the ports assigned to VLAN 50 are tagged.
D. Make sure no end stations are connected to the ports in VLAN 50.

#8 648.5.2.e.1

You configured Rapid Reconfiguration Spanning Tree Protocol (RSTP) on four HP ProCurve 5348xl switches at a customer site. During the configuration, you forgot to configure the switches so that switch-to-switch links will not be defined as edge ports. Which statement describes the consequence of your oversight?

A. The switches in the spanning tree will elect multiple Root bridges.
B. The switches will reject the spanning tree configuration and block all ports until the configuration is corrected.
C. The switches will be unable to elect a Root bridge and will not be able to forward traffic until the configuration is corrected.
D. The switches will require more time to elect the Root bridge and resolve the topology, but the spanning tree will otherwise function normally.
#9 648.5.3.g.1
You are designing an HP Switch Mesh to improve the capacity and availability of a customer network. How many HP ProCurve 5348xl switches can the mesh include?
A. 6  
B. 12  
C. 18  
D. 24  

#10 648.6.1.f.1
Port c3 on an HP ProCurve Switch 5348xl is a tagged member of VLAN 50, which is assigned priority 7 because it carries VoIP traffic. At the global configuration level of the switch’s CLI, you enter “int c3” followed by “qos pri 3.” What is the effect of these commands on the forwarding of VLAN 50 traffic?
A. It has no effect because VLAN priorities override port priorities.  
B. It lowers the priority of VLAN 50 because port-based priorities override VLAN-based priorities.  
C. It raises the priority of VLAN 50 because 3 is a higher priority than 7.  
D. It has no effect because the command does not execute and you receive an error message saying that priority settings are in conflict.

#11 648.6.3.f.1
You are installing HP ProCurve switches at a customer site that will use IGMP. All HP ProCurve 5348xl switches will participate in querier elections and may act as IGMP queriers. What configuration steps are necessary to enable one of these switches to play this role?
A. No configuration step is necessary.  
B. IP routing must be enabled and a join message issued for every multicast in which the switch will participate.  
C. IGMP must be enabled and an IP address must be assigned for every VLAN on which the switch will potentially act as querier.  
D. Bridge priority must be set to “high” and an IP address must be assigned for the switch’s primary VLAN.
#12 648.7.1.i.1
What aspect of HP ProCurve Adaptive EDGE architecture is embodied in HP ProCurve Manager?
A. Security Above All
B. Command from the Center
C. Control for the Desktop
D. Control to the Edge

#13 648.9.3.b.1
While troubleshooting a connectivity issue with an HP ProCurve switch, you decide to examine the switch’s system log. Identify the command that will enable you to examine all log entries since the last power cycle.
A. show log -a
B. show log -p
C. show log –pc
D. show log -r
Answer Key

#1  B.
#2  C.
#3  B.
#4  D.
#5  A,C.
#6  C.
#7  A.
#8  D.
#9  B.
#10 A.
#11 C.
#12 B.
#13 A.

Conclusion

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