



Exam Preparation Guide

HPO-Y37: Migrating & Troubleshooting Enterprise Networks

This guide is to set expectations about the context of the certification exam and to help candidates prepare. 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.

This exam tests knowledge and skills necessary for an individual to be certified as a Master ASE and therefore contains questions that are complex and demanding. It must be emphasized that the material covered in this exam reflects the challenging nature of the tasks that the Master ASE often faces in real world complex network implementations. Proper preparation is required as this is a difficult exam.

HP certification

The HP ExpertONE community is a network of qualified HP channel partners, customers, and employees. These individuals have passed certification exams that validate skills and competencies for credentials offered through the HP ExpertONE program.

Audience

Professionals who design, implement, and maintain complex enterprise level network solutions based on HP and Cisco technologies, including systems engineers, systems designers, customer IT staff, HP services field and call center support engineers.

Minimum qualifications

To pass this exam, you should have at least 5 years of experience and have deployed many complex enterprise networks. Exams are based on an assumed level of industry-standard knowledge that may be gained from the training, hands-on experience, other pre-requisite events and on-the-job real world network implementation experience. You should also be knowledgeable about:

- Advanced routing protocols such as OSPF and BGP4
- Cisco specific protocols such as EIGRP, HSRP and PVST+
- Troubleshooting methodologies
- Implementing and designing enterprise networks

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 More Details tab. You may be on your way to achieving additional HP certifications.



Exam details

The following are details about this exam:

- Number of items: 52
- Item types: multiple choice, multiple-response multiple choice, drag-and-drop
- Exam time: 150 minutes
- Passing score: 67%
- Reference material: No on-line or hard copy reference material will be allowed at the testing site.

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.

HPO-Y37	Sections/Objectives
2%	<p>Intelligent Resilient Framework (IRF)</p> <ul style="list-style-type: none">• Use the HP A-Series CLI to evaluate IRF configuration and performance• Troubleshoot IRF split detection using Multi-Active Detection (MAD) over LACP or over BFD
13%	<p>Rapid Ring Protection Protocol (RRPP)</p> <ul style="list-style-type: none">• Describe the functioning and appropriate deployment of the Rapid Ring Protection Protocol (RRPP) in the enterprise networking• Design RRPP solutions for enterprise networks, using single-ring and intersecting-ring topologies, MSTP, and RRPP Domains• Configure and monitor RRPP implementations on HP A-Series switches• Analyze and mitigate deficiencies in RRPP implementations using tools available at the CLI of HP A-Series switches
13%	<p>Border Gateway Protocol (BGP)</p> <ul style="list-style-type: none">• Design enterprise routing solutions using interior and exterior Border Gateway Protocol (BGP) routing• Troubleshoot BGP solutions on HP A-Series switches• Use technologies such as route redistribution and filtering to ensure BGP interoperability with other routing protocols in the enterprise network



6%	<p>Layer 3 (BGP) Multi-Protocol Label Switching (MPLS) VPNs</p> <ul style="list-style-type: none">• Design L3 MPLS VPN solutions for enterprise deployment, ensuring appropriate interaction with provider networks and internal enterprise resources• Analyze and mitigate deficiencies in enterprise L3 MPLS VPNs using BGP as a signaling protocol
4%	<p>MASE networking experience requirements</p> <ul style="list-style-type: none">• Troubleshoot advanced enterprise implementations of Layer 2 and Layer 3 QoS technologies• Troubleshoot advanced enterprise implementations of OSPF, RIP, and static routes
17%	<p>Migrating a Cisco Network to Open Standards</p> <ul style="list-style-type: none">• Replace the Cisco proprietary protocols CDP, PVST+, VTP, and EIGRP with the following open standards protocols: LLDP, MSTP, GVRP, and OSPF• Devise a strategy to replace proprietary Layer 2 and Layer 3 protocols with their open standards counterpart while minimizing downtime
9%	<p>Migrating Edge Devices</p> <ul style="list-style-type: none">• Migrate edge to HP switches and connect uplinks of edge switches to the Cisco distribution switch• Configuring management options for the HP edge switches• Configure edge features
13%	<p>Migrating and Expanding the Distribution Layer with HP E-Series</p> <ul style="list-style-type: none">• Replace Cisco switches at the distribution layer with HP E-Series switches• Consider the order in which you migrate various features in order to reduce issues and downtime• Assess the advantages of various strategies in different customer environments
7%	<p>Migrating and Expanding the Distribution Layer with HP A-Series</p> <ul style="list-style-type: none">• Replace Cisco switches at the distribution layer with HP A-Series switches• Consider the order in which you migrate various features in order to reduce issues and downtime• Assess the advantages of various strategies in different customer environments
7%	<p>Migrating Border Gateway Protocol</p> <ul style="list-style-type: none">• Replace a BGP-configured Cisco router with a BGP-configured HP A-Series router• When replacing a BGP-configured Cisco router with a BGP-configured HP A-Series router, consider the operation order to reduce downtime



Training

Recommended training to help prepare for this exam is accessible in The Learning Center. See the exam attachment, Supporting courses, to view and register for courses. You are not required to take the recommended, supported courses; and completion of training does not guarantee that you will pass the exam. HP strongly recommends a combination of training, thorough review of courseware and additional study references, and sufficient on-the-job experience prior to taking the exam.

Additional study references

This section lists additional courses and documents that can help you prepare for the exam and acquire the knowledge necessary to achieve the associated credential. You must also gain the practical experience outlined in this guide.

Please note: The following materials were available when this document was published. Reference materials are continually updated.

Reference type/title	Order number	Source
HP Networking Interoperability Rev 10.41 (ASE level training course)	The Learning Center (Partners and end users): 00243319 Grow@HP (HP employees): 00238265	
Troubleshooting HP Networks Rev 10.41 (ASE level training course)	The Learning Center (Partners and end users): 00249474 Grow@HP (HP employees): 00238367	

Exam registration

To register for this exam, please go to the exam tab in The Learning Center and click on "Access more information". Visit <http://www.hp.com/go/ExpertONE> for access.

Conclusion

HP wishes you success in passing the exam and joining the HP ExpertONE program.



HP ExpertONE

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