# HP Certified Professional
## OpenVMS Version 7.x to 8.2 Migration
Exam #HP0-277
Exam Preparation Guide

## 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 help you achieve a successful passing score. 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

The OpenVMS Version 7.x to 8.2 Migration exam is intended for IT professionals who already hold the OpenVMS v7.x CSE credential and wish to update their CSE certification to v8.2.

Candidates should take the exam after acquiring the necessary competencies and when able to meet the exam objectives outlined in this document.

## Exam Details

These details refer to the exam described in this document:
- Number of questions: 62
- Time allotted to take the exam:  90 minutes
- Passing score: 58%
- No on-line or hard copy sources may be referenced during the exam.

## Scope of the Exam

The OpenVMS Version 7.x to 8.2 Migration exam measures advanced level knowledge and skills related to the major competencies and technologies listed below. You need hands-on experience to pass this exam.

### Major Competencies

Exam candidates should be able to:
- Describe and demonstrate new user features.
- Describe new system and system management features.
- Describe new features supporting Integrity servers.
- Describe and demonstrate the use of the Integrity console.

**Exam Objectives**

Use the exam objectives listed in this section to guide your study and to check your readiness for the exam. The exam measures your understanding of these objectives. The approximate percentage of exam questions dedicated to each major category of objectives is included in parenthesis.

**OpenVMS Version 7.x to 8.2 Migration**

**(27%)  Describe and demonstrate the use of new user features.**

Describe the changes to blocks-to-bytes displays in V7.3-2 and V8.2
Describe and demonstrate the use of changes to the SPAWN command implemented starting with V7.3-1
Describe and demonstrate the use of changes to STOP and exit handlers in V7.3-1 and V7.3-2
Describe and demonstrate the use of changes to extended DCL
Describe enhanced file processing available starting with V7.3-2
Describe and demonstrate the use new or changed commands
Describe the changes to DCL mailbox support

**(37%)  Describe new system and system management features.**

Describe the system features new to v7.3-2 and v8.2
Describe and demonstrate the use of new system and system management features relevant to performance monitoring and tuning
Describe and demonstrate the use of new system and system management features impacting system availability
Describe and demonstrate the use of new system and system management features concerning system security
Describe and demonstrate the use of new system and system management features relevant to clustering
Describe and demonstrate the use of new system and system management features for UNIX portability
Describe and demonstrate the use of new system management tools
Describe and demonstrate the use of new system and system management features affecting networking

**(16%)  Describe and demonstrate the use of new features supporting Integrity servers**

Describe new OpenVMS IA64 licensing concepts
Describe new OpenVMS features supporting the Itanium system architecture
Describe changes to OpenVMS address space layout required by the Itanium system architecture

**(20%)  Describe and demonstrate the use of the Integrity console**

Describe and demonstrate the use of the Integrity console interfaces
Describe and demonstrate the use of the Extensible Firmware Interface (EFI)
Describe and demonstrate the use of Integrity console features used when installing OpenVMS on Integrity servers
Describe the mapping of console device names to OpenVMS device names
Describe and demonstrate the use of Integrity console features used when booting OpenVMS on Integrity servers
Describe and demonstrate the console procedures for swapping a system disk
Describe and demonstrate the use of the Bboot options command procedure
Describe the differences in methods for forcing a crash

# Recommended Training Courses and Documents

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

You are not required to take the courses listed in this section before taking the exam. However, HP **strongly recommends** that you attend the appropriate classes, participate in class labs, and thoroughly review course materials and reference documents before taking the exam.

### Instructor-Led Training

Use the information in this guide and the practical experience you have gained to determine which of the following courses, if any, you should take to prepare for this exam. Technical documentation and hands-on experience may provide appropriate learning alternatives to instructor-led training for more experienced candidates.

The following course covers the majority of the knowledge and skills tested.
- HP OpenVMS V8.x Technical Update (u8631)

### Documentation

This section lists reference documents that describe the major competencies, technologies, and concepts covered in the exam. HP **strongly recommends** that you review the specific sections listed for each document. Since some sections may describe topics in more depth than is required for the exam, you should use the exam objectives listed in this publication to guide your study.

| Contents | URL |
| --- | --- |
| **OpenVMS Systems Documentation search** | http://h71000.www7.hp.com/doc/index.html#ovmsdocset |
| **OpenVMS V8.2-1 and 8.2 Documentation** | http://h71000.www7.hp.com/doc/os82_index.html |
| **OpenVMS V7.3-2 Documentation** | http://h71000.www7.hp.com/doc/os732_index.html |
| **OpenVMS V 7.3 Documentation** | http://h71000.www7.hp.com/doc/os73_index.html |

# Section 2: Sample Exam Questions

## Sample Exam Questions

This set of sample exam questions will help you become familiar with the types of questions on the exam. This set of questions is NOT intended to test your readiness for the exam, since the questions do not cover every test objective. None of these questions is contained on the actual exam. The actual exam questions may be more or less difficult than this set of questions.

After answering these questions, check your responses using the answer key provided at the end of this section.

1.  What does the lexical function F$UNIQUE generate?

    A.    a unique resource identifier on a cluster member

    B.    a unique character string in a cluster

    C.    a unique file specification on a cluster member

    D.    a unique mail box number in a cluster

2.  A customer has an Integrity server licensed for the Enterprise Operating Environment (EOE). What will the command WRITE SYS$OUTPUT 'F$LICENSE("VMS*") return?

    A.    EOE

    B.    TRUE

    C.    FALSE

    D.    VMSCLUSTER

3.  You have an application that creates sequential log files. It runs significantly faster on a V7.3-1 system, with no other changes. What is the most likely reason?

    A.    Highwater marking is disabled on V7.3-1 volumes, by default.

    B.    The XQP preallocates blocks for file use at process login.

    C.    RMS buffers increased to 32 blocks in size for sequential files.

    D.    The XFC supports delayed writeback operations in V7.3-1.

4.   What does SET VOLUME/LIMIT do?

 A.   changes the default file limit for all files on a volume

 B.   restricts the maximum number of files on a volume

 C.   changes the default file limit on directories

 D.   enables the volume for dynamic expansion

 E.   identifies the upper bound for highwater marking

**Answer Key**

| # | Answer |
|----|--------|
| 1. | B |
| 2. | C |
| 3. | C |
| 4. | D |

## Conclusion

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