

**EXAM DESCRIPTION**

# Hitachi Vantara Qualified Professional Storage Performance Analysis with Ops Center Analyzer HQT-6701 Exam

**Exam Type**  
Qualification

**Format**  
Proctored, closed book exam

**Credential**  
Hitachi Vantara Qualified Professional – Storage Performance Analysis with Ops Center Analyzer

**Validity** 3 years

**Delivery**  
[Kryterion Webassessor System\\*](#)

**Questions** 35

**Passing Score** 65%

**Duration** 60 minutes

**Cost**  
US \$100 or equivalent in local currency (plus local tax, depending on location)

**Supporting Material**  
• 1050CI Storage Performance Analysis with Hitachi Ops Center Analyzer

This test is primarily designed for Hitachi Vantara customers who want to analyze storage systems performance, troubleshoot performance-related problems, and optimize storage systems utilization to meet SLAs. This test is also available to Hitachi Vantara employees and partners. It validates that the successful candidate has knowledge of Hitachi Virtual Storage Platform performance characteristics, and understands storage performance analysis concepts, metrics, tools, and methodologies. The test covers Hitachi Ops Center Analyzer, Analyzer Detailed View, and SVOS QoS tools.

**Audience: Hitachi Vantara Customer, Partner, and Employee Storage Administrators**

Storage administrators should have knowledge of all storage-related operations from an end-user perspective. They are responsible for planning, allocating and managing storage, architecting storage layouts, planning connectivity, policy design, performance tuning, instituting disaster-recovery processes, cataloging maintenance and QA testing. Storage administrators should also have knowledge of storage systems, servers, operating systems, file systems, disk drives, fibre channel, host bus adapters, interconnect hardware, interoperability of storage networking and virtualization techniques.

Test Objectives	
<b>Section 1</b>	<b>Performance analysis fundamentals and technology</b>
1.1	Describe the I/O path.
1.2	Describe the I/O profile.
1.3	Describe I/O queueing concepts.
1.4	Describe RAID level performance characteristics.
<b>Section 2</b>	<b>Performance metrics and interpretation</b>
2.1	Describe Virtual Storage Platform components that affect performance.
2.2	Describe read and write I/O flows.
2.3	Describe the metrics related to processor performance in storage systems, and demonstrate how to interpret them.
2.4	Describe the metrics related to cache performance in storage systems, and demonstrate how to interpret them.
2.5	Describe the metrics related to front-end port performance in storage systems, and demonstrate how to interpret them.
2.6	Describe the metrics related to disk drives in storage systems, and demonstrate how to interpret them.
2.7	Describe the metrics related to storage systems replication, and demonstrate how to interpret them.

\* Depending on the location and course delivery format, this closed-book, proctored qualification test may also be offered and administered by the instructor at the conclusion of the supporting course.

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Section 3	Performance technologies
3.1	Describe SAS, NL-SAS and Flash storage technologies and their characteristics.
3.2	Describe NVMe and SCM storage technologies and their characteristics.
3.3	Describe SVOS performance features and enhancements.
Section 4	Performance tuning tools
4.1	Describe QoS concepts.
4.2	Describe QoS management with Hitachi Ops Center Analyzer.
4.3	Describe QoS management with RAIDCOM.
Section 5	Performance analysis methodology
5.1	Define performance analysis.
5.2	Describe various performance analysis approaches.
5.3	Describe how to use Hitachi Ops Center Analyzer tools.

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