

**EXAM DESCRIPTION**

# Hitachi Vantara Qualified Professional VSP 5000 Series Installation HQT-4160 Exam

**Exam Type**  
Qualification

**Format**  
Proctored, closed book exam

**Credential**  
Hitachi Vantara Qualified Professional - VSP 5000 Series Installation

**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**  
• 1090PI - Installing and Configuring the Hitachi VSP 5000 Series (5 day-ILT)

This test is designed for Hitachi Vantara employees and partners who install Hitachi Virtual Storage Platform (VSP) 5000 series systems. The test will validate that the successful candidate has knowledge and skills in installing, configuring and supporting VSP 5000 series systems at customer sites. This includes strong knowledge of the systems' hardware and associated program products, thorough understanding of installation and configuration procedures, and associated support activities. This test covers Hitachi Virtual Storage Platform models VSP 5100(H), VSP 5500(H), VSP 5200(H) and VSP 5600(H).

**Audience: Hitachi Vantara Employee and Partner Installation Professionals**

Hitachi VSP 5000 series installation professionals should have strong knowledge and skills in installing and supporting storage systems deployed as part of VSP 5000 series solutions implementation. They perform pre-installation checks and install, configure and test the systems so they can be handed over in an operational state to customers. They also provide post-installation services, including support, maintenance, updates and upgrades, and have knowledge of problem-determination and incident-resolution procedures, tools and techniques.

Test Objectives	
<b>Section 1</b>	<b>System Architecture</b>
1.1	Describe the different VSP 5000 models and their specifications.
1.2	Describe the VSP 5000 systems architecture, their components and their functions.
1.3	Describe the front-end design and layout of VSP 5000 systems and the supported Channel Boards (CHBs).
1.4	Describe the back-end design and layout of VSP 5000 systems and the supported Disk Adapters (DKAs).
<b>Section 2</b>	<b>System Pre-Installation and Installation</b>
2.1	Describe the VSP 5000 storage systems pre-installation procedures and documentation.
2.2	Describe the VSP 5000 disk controllers (DKCs) interconnections.
2.3	Describe the "New Installation" procedure for VSP 5000 storage systems and when it is appropriate to use.
2.4	Describe the VSP 5000 storage systems network settings.
2.5	Describe the VSP 5000 storage microcode upgrade procedures.
<b>Section 3</b>	<b>System Configuration</b>
3.1	Describe the key steps involved in the installation of VSP 5000 storage systems.
3.2	Describe how to create Parity Groups on VSP 5000 storage systems.

\* 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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3.3	Describe how to perform online hardware upgrades and configuration changes on VSP 5000 storage systems.
<b>Section 4</b>	<b>Management Software</b>
4.1	Identify the VSP 5000 storage systems management tools and describe their function.
4.2	Describe the Hitachi Remote Ops SVP Agent configuration and functionality.
<b>Section 5</b>	<b>Maintenance and Incident-Resolution</b>
5.1	Describe how to backup the VSP 5000 storage systems configuration.
5.2	Describe how to troubleshoot incidents on VSP 5000 storage systems.
5.3	Describe the parts-replacement procedures on VSP 5000 storage systems.
5.4	Describe the various processes associated with drive sparing.

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