



EXAM DESCRIPTION

Hitachi Data Systems Certified Specialist – NAS Solutions Implementation HCE-5210 Exam

Description:	This test is designed for Hitachi Data Systems employees and partners who deploy and integrate Hitachi NAS Platform systems in customer environments. The test will validate that the successful candidate has knowledge and skills in implementing and supporting NAS solutions running on Hitachi NAS Platform systems. This includes thorough understanding of deployment and integration procedures and best practices, and of the tools and techniques related to supporting these systems. This test covers Hitachi NAS Platform 3000 and 4000 models and the accompanying management software.
Audience:	Hitachi Data Systems employee and partner implementation and integration professionals. Hitachi NAS Platform implementation personnel should have strong knowledge and skills in using, deploying and supporting Hitachi NAS Platform solutions. They have knowledge of storage concepts, file-oriented networks and interoperability of storage networking. As systems integrators, they provide pre-installation services, and following best practices they deploy, configure and test the hardware and software products included in the solutions. They provide post-installation support services including solutions maintenance, updates and upgrades, and they have thorough knowledge of problem determination and incident-resolution tools and techniques. They support all related administrative activities and should also be able to perform knowledge-transfer tasks by communicating needed information to allow clients to assume responsibility for operation of the solutions deployed.
Supporting material:	TCI2102 Implementing Hitachi NAS Platform course (4d ILT/vILT)
Exam type:	Certification
Format:	Proctored, closed-book exam
Credential:	Hitachi Data Systems Certified Specialist - NAS solutions implementation
Delivery:	The exam is available through the Kryterion Webassessor system.
Questions:	60
Passing score:	68%
Duration:	90 minutes; 120 minutes for non-English-speaking countries
Cost:	US\$225

Test Objectives

Section 1	Ethernet network connectivity
1.1	Describe the network advanced features used by Hitachi NAS Platform.
1.2	Demonstrate how to configure Hitachi NAS Platform for integration into a customer's network.
1.3	Identify the hardware-media-type requirements for integration of Hitachi NAS Platform in a customer environment.
Section 2	File systems
2.1	Describe file-system architectures.
2.2	Describe the architecture benefits of the Hitachi NAS Platform file system.
2.3	Demonstrate how to limit user space consumption with Hitachi NAS Platform.
2.4	Describe the deduplication functionality of Hitachi NAS Platform.
Section 3	File-systems access protocols
3.1	Describe file-system access protocols for Microsoft® Windows® and UNIX platforms.
3.2	Demonstrate how to integrate a Hitachi NAS Platform solution with Windows and UNIX authentication services.
3.3	Demonstrate how the Enterprise Virtual Server allows integration of a Hitachi NAS Platform

	solution with several separate domains.
3.4	Describe how to configure and manage iSCSI in a Hitachi NAS Platform environment.
Section 4	Block-level storage connectivity
4.1	Describe Hitachi best practices for SAN and DAS storage-port configurations.
4.2	Describe best practices for connecting HDS storage arrays to Hitachi NAS Platform using SAN or direct connect.
Section 5	Hitachi NAS Platform pre-deployment planning
5.1	Demonstrate knowledge of implementation planning for migrating to a Hitachi NAS Platform solution.
Section 6	Hitachi NAS Platform setup and configuration
6.1	Describe the software license management on the Hitachi NAS Platform.
6.2	Demonstrate how to configure and set up the Hitachi NAS Platform solution according to HDS best practices.
Section 7	Implementing a Hitachi NAS Platform in a data-protection environment
7.1	Demonstrate how to implement snapshot technologies in Hitachi NAS Platform solutions.
7.2	Demonstrate how to implement Hitachi NAS Platform replication technologies.
7.3	Demonstrate how to configure and set up anti-virus protection in a Hitachi NAS Platform environment.
7.4	Describe how to configure a Hitachi NAS Platform for integration with backup-and-restore software.
Section 8	Implementing Hitachi NAS Platform in a disaster-recovery environment
8.1	Demonstrate how to leverage Hitachi NAS Platform solutions with storage systems asynchronous block-level replication in disaster-recovery environments without SyncDR.
8.2	Demonstrate how to leverage Hitachi NAS Platform solutions with storage systems synchronous block-level replication in disaster-recovery environments without SyncDR.
8.3	Demonstrate how to implement Hitachi NAS Platform clustering technologies in disaster-recovery solutions utilizing SyncDR.
Section 9	Implementing Hitachi NAS Platform in tiering solutions
9.1	Demonstrate knowledge of the Hitachi NAS Platform data migrator cross volume links (CVL) feature.
9.2	Demonstrate knowledge of the Hitachi NAS Platform data migrator external cross volume links (XVL) feature.
9.3	Demonstrate knowledge of the Hitachi NAS Platform data migrator to cloud (DM2Cloud) feature.
9.4	Describe the Hitachi NAS Platform tiered-file systems functionality.
9.5	Demonstrate how to configure data migrator to undertake a reverse migration with Hitachi NAS Platform.