

# Exam Description Document for the

## *SNIA Storage Networking Foundation Exam (S10-110)*

### ***Exam Title:***

What is the actual name of the exam?

SNIA Storage Networking Foundation (S10-110) exam
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### ***Credential Awarded:***

What is the actual name of the credential the candidate receives for passing the exam (e.g., ACME Certified Architect)?

SNIA Storage Networking Certified Professional (SNCP)
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### ***Exam Purpose:***

Complete the following statement: "This certification exam certifies that the successful candidate has vendor neutral knowledge and can..."

describe storage network concepts, demonstrate an understanding of the basic components of storage networks, storage protocols, and disaster recovery.
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### ***Intended Exam Audience:***

What are the job positions of the intended audiences for the credential(s) listed above?

What are the primary job responsibilities of each job position?

<b><i>Job Position</i></b>	<b><i>Primary Job Responsibilities</i></b>
Storage Administrators/Engineers	<ul style="list-style-type: none"><li>• Manage and administer storage systems<ul style="list-style-type: none"><li>○ Basic ability to configure storage</li><li>○ Monitor components of storage systems</li><li>○ Use industry standards and best practices</li><li>○ Capacity planning</li><li>○ Performance</li></ul></li></ul>
Storage Network Administrators	<ul style="list-style-type: none"><li>• Manage and administer storage networks<ul style="list-style-type: none"><li>○ Basic ability to configure networks</li><li>○ Monitor components of storage networks</li><li>○ Use best practices</li><li>○ Performance</li></ul></li></ul>
Backup Administrator/Data Management Administrator	<ul style="list-style-type: none"><li>• Restore and backup files</li><li>• Implement Recovery Time Objectives</li><li>• Disaster Recovery management (e.g., RPO)</li><li>• Data protection (e.g., deduplication, replication, snapshots, compliance, encryption)</li><li>• Testing/validation of backups</li></ul>

Operations/Support	<ul style="list-style-type: none"> <li>• Problem identification/resolution</li> <li>• Solution monitoring</li> <li>• Root cause analysis</li> </ul>
Cloud Storage Administrator	<ul style="list-style-type: none"> <li>• Manage and administer cloud systems <ul style="list-style-type: none"> <li>○ Basic ability to configure cloud storage</li> <li>○ Monitor components of cloud storage systems</li> <li>○ Use industry standard cloud protocols, cloud standards and operational processes</li> <li>○ Public/private (hybrid) cloud</li> </ul> </li> <li>• Capacity planning</li> </ul>
Implementation Specialists	<ul style="list-style-type: none"> <li>• Installing implementation plans</li> <li>• Understands best practices</li> <li>• Understands the documentation process</li> </ul>
Systems Engineer/Analyst	<ul style="list-style-type: none"> <li>• Implement the proof of concept</li> <li>• Design and implement a solution</li> <li>• Understands basic network concepts (e.g., Ethernet/IP and FC)</li> </ul>
Storage Engineer/Sales Engineers (pre-sales/post sales)	<ul style="list-style-type: none"> <li>• Architect and design a storage solution</li> <li>• Understand storage administration</li> <li>• Capacity utilization</li> <li>• Performance administration</li> <li>• Understand disaster recovery concepts</li> </ul>

***Certification Program Path Description:***

Describe the certification program track where this exam is positioned filling in the cell below. This information should represent the “path” a person takes to be awarded a certification credential. You should consider including the following:

- Knowledge or experience required *before* starting the certification track.
- Required or recommended courses (indicate which).
- Required or recommended work experience (indicate which).
- Other certification test(s) that are part of the certification track.
- Credentials awarded while progressing through the certification track.

Familiarity with the following (recommended):

- DSI Cert Prep sessions
- SNIA Classroom courses
- SNIA e-courses and e-books
- SNIA online courses
- SNIA Recommended reading
- SNIA Dictionary
- SNIA Tutorials

***Domain Covered by the Exam:***

List the major topics or issues that will be covered by this exam.

Host Elements
Identify host connectivity components used in a support matrix
Describe host-based functions for storage
Identify storage mapping elements
Describe virtualization concepts and techniques
Describe data storage planning for various business applications
Describe how to improve performance for host applications
Storage Protocol Concepts
Identify NAS components
Identify Fibre Channel SAN components
Identify Ethernet/IP SAN components
Describe DCBX switching technology
Identify the software storage model
Storage Hardware
Identify host to SAN components
Identify Flash technology for enhancing applications
Describe the different RAID levels
Describe disk technologies
Identify DAS technology
Disaster Recovery
Identify backup technologies
Describe backup types
Describe disaster recovery concepts
Storage Functions
Describe storage security methods
Identify storage management technologies
Describe data reduction techniques
Cloud Storage
Identify Cloud storage methods
Identify Cloud storage types