

# SNIA Architect – Assessment, Planning, and Design



## Online Course

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## Course Modules

### 1. Assessment

- Determine topology issues relevant to solution-focused design
- Determine disaster recovery issues relevant to soln-focused dsgn.
- Determine high availability issues relevant to soln-focused design
- Performance issues relevant to solution-focused design
- LAN-free/server-free issues relevant to soln-focused design
- Assess the existing infrastructure prior to designing an FC SAN
- Assess existing hardware & software prior to designing a SAN
- Assess distance limitations prior to designing a SAN or NAS soln.
- Assess current storage prior to designing a SAN or NAS solution.
- Validate the design of SAN solns (e.g., given a proof of concept).
- Evaluate and specify hardware capabilities & software functionality
- Perform needs assessment and determine Gap Analysis Solution
- Doc the impact of I/O bus, HBA and storage directors on system
- Document risk acceptance criteria leveraging ITIL
- Verify a user's capacity plan requirmnts work by sizing a new strg
- Assess the existing infrastructure to designing an IP SAN solution





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## 2. Planning

- Plan for storage and server consolidation.
- Create Capacity Planning processes and procedure for a SAN soln.
- Build and document operating procedures for implementing strg .
- Build & doc a job flow sequence for managing backup strategies.
- Create a checklist to call out the procedures for the data mangmt
- Develop principles of working within the data center to facilitate
- Plan architecture solutions for scalability.
- Plan architecture solutions for capacity, including throughput
- Plan architecture solutions for interoperability.
- Plan architecture solutions for security (e.g., LUN mapping, ).
- Plan FC SAN solution to accommodate heterogeneous or homgns
- Plan for the manageability of the SAN or NAS infrastructure.
- Plan SAN and NAS models (e.g., mesh, star, and hybrid config
- Plan migrations to FC SAN solutions (interconnecting devices).
- Create a Capacity Planning process and procedures for a NAS soln.
- Plan IP SAN solns to accommodate heterogeneous or homgns



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## **3. Design**

- Design high availability strategies.
- Design a storage area network within such constraints as financial
- Design a backup and recovery strategy.
- Design and document disaster recovery solutions.
- Demonstrate knowledge of Storage Management Design
- Given a scenario, design logical recovery strategies.
- Design fault tolerant solutions and strategies.
- Design failover solutions.
- Design clustering systems solutions.
- Define the steps to make a volume usable through a SAN.
- Design disk recovery methods.
- Design database to storage layout strategies.
- Design a NAS soln, defining the impact on local & wide area network

## **4. Problem Resolution and Troubleshooting**

- Create QA strategy and procedures (leveraging ITIL)
- Manage an error free operation through measurement criteria

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