

# VCAP - Data Center Virtualization Design

(VCP-DCV)



# Online Course

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# **VCAP - Data Center Virtualization Design**

## **Course Modules**

### **1. IT Architectures, Technologies, Standards**

- Differentiate between business and technical requirements
- Differentiate conceptual, logical, and physical design.
- Differentiate between Availability, Manageability, Performance, Recoverability

### **2. VMware Products and Solutions**

- Describe VMware Cloud Foundation architecture.
  - Describe the components of a VMware Cloud Foundation architecture.
  - Describe VMware Cloud Foundation benefits.
  - Identify VMware Cloud Foundation use cases.
- Describe VMware Validated Solutions architecture.
  - Describe VMware Validated Solutions benefits.
  - Identify VMware Validated Solutions use cases.

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### **3. Plan and Design the VMware Solution**

- Gather and analyze business objectives and requirements.
  - Identify business factors that affect designs.
  - Define customer business objectives.
  - Gather and analyze business, app, and operational requirements.
  - Define business requirements, constraints, assumptions, risks,
  - Gather & analyze business and technical



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# VCAP - Data Center Virtualization Design

- Create a conceptual model.
  - Use a systematic method to evaluate & doc the conceptual model.
  - Create a conceptual model from a set of business objectives.
- Create a logical design.
  - Recognize key information required for logical design decisions.
  - Identify design decision options.
  - Based on a given scenario, identify the design decision(s)
  - Define design impacts, risks, and risk mitigation options.
  - Create a logical design from a conceptual design.
- Create a physical design.
  - Recognize key information required in physical design decisions.
  - Create a physical design from a logical design.
- Design for manageability: capacity planning
  - Make design decisions for capacity planning.
  - Make capacity planning design decisions for vSphere
  - Define a capacity planning strategy that meets the business reqmnt
- Design for manageability: scalability
  - Make scalability design decisions that meets the business reqmnt
  - Make design decisions to scale storage types.
- Design for manageability: lifecycle management
  - Make lifecycle mgmt design decisions that meets the requirmnts.



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- Design for availability
  - Make design decisions to meet SLO availability requirements.
  - Make design decisions for compute.
  - Make design decisions for storage.
  - Make design decisions for networking.
  - Make design decisions to choose a high availability option
- Design for performance
  - Make design decisions to meet SLO performance requirements.
  - Identify design decision options for increasing storage performnc
  - Identify design decision options for increasing network performnc.
  - Identify design decision options for increasing virtual machine
- Design for security
  - Make security design decisions that meet business requirements.
- Design for recoverability
  - Recoverability design decisions that meet the SLO recoverability

**Install, Configure, Administrate the VMware Solution Not Applicable**  
**Troubleshoot and Optimize the VMware Solution Not Applicable**

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