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COMPTIA

Cloud and Virtualization Essentials Training

Course Overview

This five-day instructor-led training combines two training courses:

- CompTIA Cloud Essentials
- Virtualization Essentials Professional (VEP)

The course focuses on how to utilize virtualization and cloud computing in a business or enterprise environment. The instructor examines both the technical and business perspectives regarding the benefits of combined technologies.

Course Outline

Cloud Computing Introduction

- Cloud Computing Overview
- The History of Cloud Computing
- Specialized and Specific Cloud Services

The Business Value of the Cloud

- The Need for the Cloud
- Scalability
- Security
- Impact of the Cloud on Business

Technical Perspectives of the Cloud

- Deployment Models
- Network Requirements for Developing the Cloud



- Self Service and Automation
- Federation
- Standardization

Technical Challenges of Cloud Computing

- Storage
- Performance of Applications
- Integrating Data
- Mitigating Risks
- The Application Architecture and Involved Development Process

Successful Adoption of Cloud Based Services

- Steps to Adopting Cloud Services
- An Organization's Capability to Adopt Cloud Services
- Capabilities and Roles of a Cloud Vendor
- Migrating Applications

ITIL and Cloud Computing

- Overview of ITIL
- Laying Out a Service Strategy
- Designing Cloud Services
- Transitioning to a Live Environment
- Running a Cloud Service Operation
- Continuous Improvement of Service

Identifying Risks and Consequences

- Organizational Risks
- Technical Risks
- Legal Risks
- Evaluating the Cost of Cloud Computing
- Identifying the Maintenance Aspects of Strategic Flexibility

Virtualization Essentials:



- Introduction to Virtualization
- Virtualization from a Business Perspective
- Server Virtualization
- Networks, Storage and Applications
- Utilizing Workplace Virtualization Technologies
- Adopting Virtualization
- Operating Virtualization
- Effectively Managing Virtualization

Exam Information

Cloud Essentials

Cloud Essentials covers the following domains:

- Technical Perspective/Cloud Types - 20%
- Cloud Computing and Business Value - 20%
- Cloud Services Characteristics from a Business Perspective - 15%
- Steps to Successful Adoption of Cloud Computing - 15%
- Risks and Consequences of Cloud Computing - 15%
- Impact and Changes of Cloud Computing on IT Service Management - 15%

The Cloud Essentials certification exam consists of:

- 50 questions
- Passing Score is 720
- 60 minute time frame to complete
- Test Delivery is through Pearson VUE

Virtualization Essentials Professional (VEP)

VEP covers the following topics:

- Business Perspective of Virtualization
- Technical Capabilities and Operating Model for Virtual Infrastructures
- Integrating Virtualization into an Organization's Current Risk and Regulatory Framework
- Benefits and Associated Costs
- Adoption Barriers and Steps for Successful Adoption
- Impact on IT Service Management

The Virtualization Essential Professional certification exam consists of:

- 40 multiple choice questions
- Closed book
- 60 minute time frame to complete
- Passing score is 65% (26 out of 40)



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Included in this **Cloud and Virtualization Essentials Training**

- 5 days instructor-led training
- Cloud and Virtualization Essentials Training training book
- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class*
- Tea, coffee and soda available throughout the day*
- Freshly baked cookies every afternoon*