

CompTIA Cloud Essentials

Length: 3 Days

Who Should Attend

The CompTIA Cloud Essential Specialty certification is relevant to IT specialists, IT technical services specialists, IT relationship managers, IT architects, consultants, business and IT management, business process owners, and analysts.

Course Objectives

Upon successful completion of this course, students will be able to:

- Learn the fundamental concepts of cloud computing.
- Learn the business aspects and impact of cloud computing.
- Differentiate the types of cloud solutions and the adoption measures needed for each.
- Identify the technical challenges and the mitigation measures involved in cloud computing.
- Identify the steps to successfully adopt cloud services.
- Identify the basic concepts of ITIL and describe how the ITIL framework is useful in the implementation of cloud computing in an organization.
- Identify the possible risks involved in cloud computing and the risk mitigation measures, and you will also identify the potential cost considerations for the implementation of cloud and its strategic benefits.

Course Content

Domain 1.0 Characteristics of Cloud Services from a Business

Perspective

- 1.1 Understand common terms and definitions of cloud computing and provide examples.
- 1.2 Describe the relationship between cloud computing and virtualization.
- 1.3 Name early examples of cloud computing.
- 1.4 Understand several common definitions of cloud computing and their commonalities/differences.
- 1.5 Recognize what types organizations might benefit from cloud computing.
- 1.6 Recognize what types organizations might not benefit from cloud computing.
- 1.7 Distinguish between the different types of clouds, including XaaS, IaaS, PaaS, and give examples of them.

Domain 2.0 Cloud Computing and Business Value

- 2.1 Recognize the similarities and differences between cloud computing and outsourcing.
- 2.2 Understand the following characteristics of clouds and cloud services from a business perspective:
 - Scalability
 - Security
 - Hardware independence
 - Variable costs
 - Time to market
 - Distribution over the Internet
- 2.3 Demonstrate how the characteristics of cloud computing enhance business value.

Domain 3.0 Technical Perspectives/Cloud Types

- 3.1 Understand the difference between private and public types of clouds from a technical perspective and provide examples.
 - 3.2 Understand at a high level the following
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important techniques and methods for cloud computing deployment:

- Networking
- Automation and Self Service
- Federation
- The role of standardization

3.3 Explain technical challenges and risks for cloud computing and methods to mitigate them for:

- Cloud storage
- Application performance
- Data integration
- Security

3.4 Describe the impact of cloud computing on application architecture and the application-development process.

Domain 4.0 Steps to Successful Adoption of Cloud

4.1 Explain typical steps that lead to a successful adoption of cloud computing services:

- Understand selection criteria for a pilot
- Relate SaaS, PaaS, IaaS deployment to organizational goals

4.2 Understand the roles and capabilities of cloud computing vendors and dependencies on the vendors.

4.3 Understand the following organizational capabilities that are relevant for realizing cloud benefits:

- Skills that are required in an organization adopting cloud computing
- Critical success factors

4.4 Describe multiple approaches for migrating applications

Domain 5.0 Impact and Changes of Cloud Computing on IT Service Management

5.1 Understand the impact and changes cloud computing on IT service management in a

typical organization:

- Service Strategy
- Service Design
- Service Operation
- Service Transition

5.2 Use a structured approach based on ITIL to explore the potential impact of cloud computing in your organization.

Domain 6.0 Risks and Consequences of Cloud Computing

6.1 Explain and identify the issues associated with integrating cloud computing into an organization's existing compliance risk and regulatory framework:

- Security Legal, Compliance, Privacy risks

6.2 Explain the implications for direct cost and cost allocations.

6.3 Understand how to maintain strategic flexibility.