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CompTIA Cloud Essentials

Course Objective: You will weigh the pros and cons of cloud computing to make effective decisions and meet IT challenges.

Prerequisites: This course is the first step on a training path that can lead to a technical career dealing with cloud computing. CompTIA recommends that a candidate have at least six months of experience in an IT environment, with direct involvement in IT-related tasks, responsibilities and/or decision-making.

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

Lesson 1: Introduction to Cloud Computing

Topic 1A: Overview of Cloud Computing

Topic 1B: Evolution of the Cloud

Topic 1C: Specialized Cloud Services

Lesson 2: Business Value of Cloud Computing

Topic 2A: Business Need for Cloud Computing

Topic 2B: Cloud Scalability **Topic 2C:** Cloud Security

Topic 2D: Impact of Cloud Computing on Business

Lesson 3: Technical Perspectives of Cloud Computing

Topic 3A: The Cloud Deployment Models

Topic 3B: Network Requirements for Cloud Deployment **Topic 3C:** Automation and Self-Service in Cloud Computing

Topic 3D: Federated Cloud Services

Topic 3E: Standardization



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Lesson 4: Technical Challenges of Cloud Computing

Topic 4A: Cloud Storage

Topic 4B: Application Performance

Topic 4C: Data Integration

Topic 4D: Security Risks and Mitigation

Topic 4E: Application Architecture and the Development Process

Lesson 5: Steps to Successful Adoption of Cloud Services

Topic 5A: Steps to Adopting Cloud Services

Topic 5B: Organizational Capability to Adopt Cloud Services

Topic 5C: Cloud Vendor Roles and Capabilities **Topic 5D:** Migrating Applications to the Cloud

Lesson 6: ITIL and Cloud Computing

Topic 6A: Overview of ITIL

Topic 6B: Planning Service Strategy **Topic 6C:** Designing Cloud Service

Topic 6D: Transitioning to Live Environment **Topic 6E:** Running a Cloud Service Operation

Topic 6F: Continual Service Improvement with Cloud

Lesson 7: Identifying Risks and Consequences

Topic 7A: Organizational Risks

Topic 7B: Technical Risks

Topic 7C: Legal Risks

Topic 7D: Cost Evaluation for Cloud Computing

Topic 7E: Identify Maintenance Aspects of Strategic Flexibility