

16 HORAS**OVERVIEW**

CompTIA's Cloud Essentials exam validates a candidate has the knowledge and understanding of the main cloud computing principles and concepts. Successful candidates will understand what cloud computing means from a business and technical perspective, as well as what is involved in moving to and governing the cloud.

TARGET STUDENT

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.

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. It is also recommended that the candidate take the following course: Introduction to Network Design and Management.

COURSE OBJETIVES

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 OUTLINE**Lesson 1: Introduction to Cloud Computing**

- Overview of Cloud Computing
- Evolution of the Cloud
- Specialized Cloud Services

Lesson 2: Business Value of Cloud Computing

- Business Need for Cloud Computing
- Cloud Scalability
- Cloud Security
- Impact of Cloud Computing on Business

Lesson 3: Technical Perspectives of Cloud Computing

- The Cloud Deployment Models
- Network Requirements for Cloud Deployment
- Automation and Self-Service in Cloud Computing
- Federated Cloud Services
- Standardization

Lesson 4: Technical Challenges of Cloud Computing

- Cloud Storage
- Application Performance
- Data Integration
- Security Risks and Mitigation
- Application Architecture and the Development Process

Lesson 5: Steps to Successful Adoption of Cloud Services

- Steps to Adopting Cloud Services
- Organizational Capability to Adopt Cloud Services
- Cloud Vendor Roles and Capabilities
- Migrating Applications to the Cloud

Lesson 6: ITIL and Cloud Computing

- Overview of ITIL
- Planning Service Strategy
- Designing Cloud Service
- Transitioning to Live Environment
- Running a Cloud Service Operation
- Continual Service Improvement with Cloud

Lesson 7: Identifying Risks and Consequences

- Organizational Risks
- Technical Risks
- Legal Risks
- Cost Evaluation for Cloud Computing
- Identify Maintenance Aspects of Strategic Flexibility