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# *Corso CompTIA Cloud Essentials+*

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## MODULE 1 – CLOUD PRINCIPLES AND DESIGN

### UNDERSTANDING CLOUD PRINCIPLES

- Virtualization
- Service Models
- Deployment Models
- Cloud Characteristics
- Shared Responsibility Model

### EXPLORING CLOUD DESIGN

- Redundancy and High Availability
- Disaster Recovery

## MODULE 2 – CLOUD NETWORKING AND STORAGE

### UNDERSTANDING CLOUD NETWORKING CONCEPTS

- Networking: A Quick Primer
- Connecting to the Cloud
- Cloud Networking Services

### UNDERSTANDING CLOUD STORAGE TECHNOLOGIES

- How Cloud Storage Works
- Cloud-Based Storage Providers
- Cloud Storage Terminology
- Content Delivery Networks

## MODULE 3 – ASSESSING CLOUD NEEDS

### USING CLOUD ASSESSMENT

- Gathering Current and Future Requirements
- Using Baselines
- Running a Feasibility Study
- Conducting a Gap Analysis
- Using Reporting
- Understanding Benchmarks
- Creating Documentation and Diagrams

### UNDERSTANDING CLOUD SERVICES

- Identity Access Management
- Cloud-Native Applications

- Data Analytics
- Digital Marketing
- Autonomous Environments
- Internet of Things
- Blockchain
- Subscription Services
- Collaboration
- VDI
- Self-Service

## MODULE 4 – ENGAGING CLOUD VENDORS

### UNDERSTANDING BUSINESS AND FINANCIAL CONCEPTS

- Expenditures and Costs
- Licensing Models
- Human Capital
- Professional Services

### FINDING AND EVALUATING CLOUD VENDORS

- Gathering Information
- Performing Evaluations
- Negotiating Contracts and Billing

### CHOOSING A MIGRATION APPROACH

- Migration Principles
- Lift and Shift
- Rip and Replace
- Hybrid and Phased Migrations

## MODULE 5 – MANAGEMENT AND TECHNICAL OPERATIONS

### EXPLAIN ASPECTS OF OPERATING WITHIN THE CLOUD

- Data Management
- Availability
- Disposable Resources
- Monitoring and Visibility
- Optimization

### EXPLAIN DEVOPS IN CLOUD ENVIRONMENTS

- Provisioning
- Continuous Integration/ Continuous Delivery
- Testing in QA Environments

- Configuration Management
- API Integration

## FINANCIAL PLANNING OF CLOUD RESOURCES

- Storage
- Network
- Compute
- Chargebacks
- Maintenance
- Instances
- Licensing Types
- License Quantity

## MODULE 6 – GOVERNANCE AN RISK

### RECOGNIZE RISK MANAGEMENT CONCEPTS RELATED TO CLOUD SERVICES

- Risk Assessment
- Risk Response
- Documentation
- Vendor Lock-in
- Data Portability

### EXPLAIN POLICIES OR PROCEDURES

- Standard Operating Procedures
- Change Management
- Resource Management
- Security Policies Access and Control Policed
- Department-Specific Policies
- Communication Policies

## MODULE 7 – COMPLIANCE AND SECURITY IN THE CLOUD

### IDENTIFY THE IMPORTANCE AND IMPACTS OF COMPLIANCE IN THE CLOUD

- Data Sovereignty
- Regulatory Concerns
- Industry-Based Requirements
- International Standards
- Certifications

### EXPLAIN SECURITY CONCERNS, MEASURES, OR CONCEPTS OF CLOUD OPERATIONS

- Threat



- Vulnerability
- Security Assessments
- Data Security
- Application and Infrastructure Security

