CompTIA Cloud Essentials+ CLO-002

Chapter 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

Chapter 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

Chapter 3 Assessing Cloud Needs

Using Cloud Assessments

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

Chapter 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

Chapter 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

Chapter 6 Governance and 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 Policies

Department-Specific Policies

Communication Policies

Chapter 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