CompTIA.

The Official CompTIA

Cloud Essentials+
Student Guide

Exam CL0-002

CompTIA Cloud Essentials+

Official CompTIA Content Series for CompTIA Performance Certifications

Official CompTIA learning resources
for Instructor-Led Training:

CompTIA
Cloud Essentials+

Official CompTIA learning resources for Instructor-Led Training are designed with the instructor in mind, providing insights and tools for successfully training learners pursuing their CompTIA Cloud Essentials+ certification.

OVERVIEW

The Official CompTIA Cloud Essentials+ Instructor and Student Guides (CLO-002) are developed exclusively by CompTIA with input from instructors across the world. Rigorously evaluated by third-party subject matter experts to validate adequate coverage of the Cloud Essentials+ CLO-002 exam objectives, the Official CompTIA Cloud Essentials+ Instructor and Student Guides teach the essential skills and knowledge needed to make clear and conscious decisions about cloud technologies and their business impact, and prepares candidates to take the CompTIA Cloud Essentials+ certification exam.

OFFICIAL LEARNING RESOURCES
• The Official CompTIA Cloud Essentials+ Instructor Guide (Exam CLO-002)
• The Official CompTIA Cloud Essentials+ Student Guide (Exam CLO-002)
• CompTIA Learning Center – Digital Learning Platform – included with purchase of print and eBook

WHY ARE OFFICIAL COMPTIA LEARNING RESOURCES DIFFERENT?

- **For Exam Takers by the Exam Developer** - Official CompTIA learning resources are the only study material exclusively developed by CompTIA for the CompTIA certification candidate.
- **Developed with the instructor in mind** - Official CompTIA learning resource's focus on instruction are unique, providing instructors ease and flexibility to teach to any audience within any modality.
- **Complete Library** - No other content library covers all exam objectives for all certifications. It provides complete breadth, depth and currency of material unavailable with competitors.

KEY FEATURES AND BENEFITS

- **Robust Assessment -** Practice questions for each lesson and a final assessment covering all lessons, more than 120 questions in total, help students practice and demonstrate what they have learned. Additionally, performance-based questions help students apply what they have learned in actual scenarios.

- **Integrate Active Learning -** Each topic has at least one activity enabling learners to practice guidelines and procedures, as well as solidify understanding of the informational material presented in the course. Activities present a job-plausible scenario or job-realistic assignment and then provide step-by-step instructions for how to approach the problem at hand. Activities may also require the student to analyze sample data, engage in structured discussion or analyze case studies.

- **Alignment and Consistency Across Book and Assessment -** The book and assessment work together with a similar approach and voice ensuring that instructors and learners have a cohesive, "single-sourced" solution for their Cloud Essentials+ courses. Activities within the book inform the classroom activities. The assessments are based on lessons in the book and includes a final assessment synthesizing concepts from all lessons.

- **Engaging Video Program Developed Exclusively for CompTIA by ITProTV -** Videos developed exclusively for CompTIA by ITProTV provide short, engaging demonstrations of key activities in the course. The videos are a great supplement to the content contained in the official guide. Video icons in the course content also alert you and your students to videos that relate to content covered.

- **Refreshed Interior Design and Image Program -** A modernized interior design updates the presentation of content. More images have been added throughout to complement the narrative and provide visual interest for student learners.

EXAM PREP OPTION

CompTIA CertMaster Practice is an online knowledge assessment and remediation tool designed to help learners feel more confident and prepared for the CompTIA exam.

ENHANCED LEARNING RESOURCES

The Official CompTIA Cloud Essentials+ Guides include the accompanying resources:

Comprehensive **INSTRUCTOR** resources ensure successful course delivery by providing:	Comprehensive **STUDENT** resources engage students by providing:
• **Course-specific delivery tips** provide the instructor with additional insights to deliver the course successfully • **Facilitator notes** in instructor guide • **Solutions** to activities and discussions • **PowerPoint slides:** A complete set of slides to facilitate the class including lists, tables, diagrams, illustrations, annotated screens and activity summaries • **Presentation Planners** help plan and schedule courses based on different course lengths • **Solutions:** Instructors have solutions to Activities and Discussion Questions embedded within the Instructor Guide. • **Transition Guides** help instructors transition from the CLO-001 of the exam to the CLO-002 exam	• **eBook:** An interactive online version of the book, along with secure PDF and downloadable versions • **Files:** Any course files available to download • **Videos:** Brief videos, developed exclusively for CompTIA by ITProTV, provide demonstrations of key activities in the course • **Assessment:** A series of different assessments for each lesson as well an overall self-assessment • **Links:** Helpful links to certification exam information, CompTIA's IT Careers blog and additional resources for exam prep • **PowerPoint slides** • **Solutions** to activities and discussions • **Strengths and Weaknesses Dashboard:** Students assessments results are aggregated in the Strengths and Weaknesses dashboard to provide an indicator of their overall performance in the course.

JOB ROLES

COURSE OVERVIEW

This course is for students who are preparing to take the CompTIA Cloud Essentials+ certification exam CLO-002.

This course is the first step on a training path that can lead to a technical career and empower professionals to make data-driven cloud recommendations by using key skills to evaluate business use cases, financial impacts, cloud technologies and deployment models.

• **Business Analysts**
• **Business Process Owners**
• **Sales and Marketing Staff in cloud product or service management**
• **Managed Service Provider Personnel**
• **New Data Center Staff**
• **Technical Support Staff**

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Lessons	Topics	Activities
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Lesson 2 **Applying Cloud Business Principles**	• Relate Cloud Concepts to Business Principles • Establish Cloud Vendor Relations • Distinguish the Financial Aspects of Engaging a Cloud Service Provider • Report Financial Expenditures	• Discussing how cloud concepts relate to business practices • Discussing Cloud Vendor Relations • Service Documents • Discuss how the shift from capitol expenditure to operating expenditures might impact your organization. • What are the financial aspects of cloud services? • Discussing Resource Tagging • Understanding Cloud Reporting Terminology • Calculating Cost for Virtual Machines
Lesson 3 **Advising a Cloud Design and Migration**	• Relate Cloud Concepts to Cloud Design and Migration • Use Cloud Assessments • Manage Cloud Design • Compare Cloud Migration Approaches • Identify Benefits and Solutions of Cloud Services	• Discuss How Cloud Concepts Relate to Cloud Design and Migration • Discussing Cloud Assessment Strategies • Cloud Assessments • Discussing Cloud Deployment Models • Cloud Design Activities • Discussing Cloud Migration • Cloud Migration Types • Discussing Cloud Solutions • Identifying Microservices and Containers • Calculating Cost for IoT and DaaS
Lesson 4 **Operating in the Cloud**	• Relate Cloud Concepts to Technical Operations • Identify the Technical Aspects of Cloud Operations • Understand DevOps in the Cloud • Explain Cloud Security Concerns, Measures, and Concepts	• Discussing Cloud Concepts and Technical Operations • Discussing Managed Service Providers and Data Backups • Data Management • Discussing DevOps and Continuous Integration / Continuous Delivery • Understanding DevOps in the Cloud • Discussing the CIA Triad • Cloud Security Concerns, Measures, and Concepts • Calculating Cost Estimate for DevOps and Monitoring
Lesson 5 **Managing Cloud Governance**	• Relate Cloud Concepts to Governance • Apply Risk Management Concepts • Understand Compliance and the Cloud • Manage Policies and Procedures for Cloud Services	• Discussing Cloud Governance • Discussing Risk Management • Risk Management Concepts • Compliance and the Cloud • Discussing Policies and Procedures • Policies and Procedures

PURCHASE EVERYTHING IN ONE PLACE

Official CompTIA learning resources are available on the CompTIA Store at https://store.comptia.org/, which means partners will be able to obtain Official CompTIA learning resources, CompTIA CertMaster products and exam vouchers all in one place. Please contact your CompTIA business development representative for more information.

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