Cloud Technology Associate™

Certificate:	Certified Cloud Technology Associate™	**Course ID:**	CCC-CTA
Duration:	3 days (virtual) classroom	**Language:**	English
Course Delivery:	Classroom, Exam, eBooks	**PMI® PDUs:**	24
Accreditor:	Cloud Credential Council		

Cloud computing is not just a technology, but also a new model for organizing, contracting and delivering information technology systems. This model has great potential for benefits but also new risks. The CCC Cloud Technology Associate™ certification demonstrates that candidates have the basic skill set and knowledge associated with cloud and virtualization.

The Cloud Technology Associate™ course starts with proper definitions of cloud computing and virtualization, and explains the benefits and applications. Technology is explained, but mostly in a vendor neutral way. A lab activity is included which enables participants to understand the cloud in a practical manner. Besides, the course is contemporary with the inclusion of latest cloud technologies and applications.

Subsequently, the risks of cloud computing are pointed out as well as ways of managing these risks. In the final part of the course the process of making choices in the adoption process of cloud is explained and cloud service management is broken down into details.

The course is an excellent way to prepare professionals who are considering cloud computing in their organizations.

Audience:

This course will be of interest to: Primary audience:

- IT Managers and solution consultants
- IT Specialists (Analysts, Developers, Architects, Testing, etc.)
- IT Administrators (System, Database, etc.)
- IT Provisioning and Maintenance (Hardware, Network, Storage, etc.)

Secondary audience includes Sales, Purchase, Audit, and Legal

Learning Objectives:

At the end of this course, the participant will gain competencies in and be able to:

- Identify the fundamental concepts of cloud computing and virtualization including business benefits of cloud computing and technical aspects (high-level) of virtualization.
- Identify the technical challenges and the mitigation measures involved in cloud computing and virtualization.
- Identify the characteristics of cloud applications.
- Identify the steps to successfully adopt cloud services.
- Understand cloud security and identify the risks involved in cloud computing as well as the risk mitigation measures.
- Understand the factors involved for implementation of different cloud models.

Benefits of Taking This Course:

The course allows IT professionals to operate effectively in a cloud environment as they can demonstrate an understanding of the key concepts and relevant terminology. It furthermore provides the foundation needed in order to successfully complete subsequent vendor-specific training/certification programs and also provides a baseline for the subsequent CCC Professional level certifications. Participants report that this training allows them to better communicate with their peers on cloud benefits and risks, and that they are in a better position to evaluate vendor proposals for cloud computing.

Prerequisites:
There are no formal prerequisites; however, it is recommended that participants have:

- 6+ months of experience in Internet/web technologies, and
- Some basic knowledge of storage and network technologies (preferred)

Course Materials Provided to Participant
Participants receive a copy of the classroom presentation material and the Participant Handbook.

About the Examination:

- Exam Format: Closed-book format.
- Questions: 40 multiple choice questions
- Passing Score: 65%
- Exam Duration: 60 minutes
- Proctoring: Live/Webcam

Technical Requirements:
For eBooks:

- Internet is required only for downloading the eBook. The eBooks can be read offline.
- eBooks can be downloaded and read on the following devices Laptop, tablet, Smart Phone, eReader PDF Reader, recommended Adobe Reader.

Agenda:

Day 1	Day 2	Day 3
Introduction to the Cloud Business Model	Overview of Cloud Technologies and Applications	Preparing for Cloud Adoption
Introduction to Virtualization	Cloud Security, Risk, and Governance	Cloud Service Management

COURSE OUTLINE

Module 1: Introduction to the Cloud Business Model
1.1 Review Traditional Computing Challenges and Concerns
1.2 Cloud Computing Concept, History, and Definitions
1.3 Cloud Computing Benefits and Challenges, Best and Least Suited Application Profiles and APIs
1.4 Cloud Reference Architecture and Common Terminologies

Module 2: Introduction to Virtualization - the Backbone Technology of Cloud Computing
2.1 Virtualization: Definition, Concepts, History, and Relationship to Cloud Computing
2.2 Virtualization: Benefits, Challenges, Risks, and Suitability to Organizations
2.3 Hypervisor: Role and Purpose in Virtualization and the Various Hypervisor Types
2.4 Virtualization: Terminologies and the different Types of Virtualization

Module 3: Overview of Cloud Technologies and Applications
3.1 Bring Your Own Device (BYOD) and MDM + EMM
3.2 Software Defined Networking (SDN)
3.3 Network Functions Virtualization (NFV)
3.4 Big Data, Analytics, NoSQL, NewSQL, HTML5

Module 4: Cloud Security, Risk and Governance
4.1 Risk and Governance Definitions
4.2 Impact of Cloud Essential Characteristics
4.3 Impact of Cloud Service Models
4.4 Impact of Cloud Deployment Models
4.5 Risk Management and Governance

Module 5: Preparing for Cloud Adoption
5.1 Cloud Strategy and Roadmap Preparation
5.2 Solution Architectures: For Various Services, Deployment Models, and Organizational Capabilities
5.3 Cloud Service Provider, SLA, and Cloud Migration
5.4 Cloud Governance and Risk

Module 6: Cloud Service Management
6.1 Cloud Service Management (CSM) Overview: Definition, Architecture, Lifecycle, Actors
6.2 CSM: Business Support
6.3 CSM: Provisioning/Configuration
6.4 CSM: Portability/Interoperability

Module 7: Exam Preparation Guide
7.1 Mock Exam