

# Appendix A

## SYLLABUS



CLOUD  
CREDENTIAL  
COUNCIL



CLOUD  
TECHNOLOGY  
ASSOCIATE+

# CLOUD TECHNOLOGY ASSOCIATE+

## Syllabus

Version 3.0.0

August 2018



COMPONENT	DESCRIPTION
Course Title	Cloud Technology Associate+
Course Duration (Self-Study eBook course)	8 Hours
Audience Profile	Suitable for IT professionals who have completed the Cloud Technology Associate (CTA) course.

## COURSE INTRODUCTION

The Cloud Technology Associate Plus course aims to explore a few additional and advanced concepts related to cloud, virtualization, and various other terminologies which are seamlessly blended with latest digitization trends and technologies. In addition, this course also provides various hands-on labs on AWS cloud which will help the participants to enhance their understanding and knowledge of virtual machines and storage in the cloud.

The course include comprehensive reference materials that help the participants to practice their knowledge through a case study. The course prepares candidates for the Cloud Technology Associate+ exam provided by the Cloud Credential Council (CCC).

## TARGET AUDIENCE

- IT Specialists (Analysts, Developers, Architects, Testing, etc.)
- IT Administrators (System, Database, etc.)
- IT Provisioning and Maintenance (Hardware, Network, Storage, etc.)
- IT Managers
- IT Project Managers
- Others (Sales, Purchase, Audit, Legal, etc.)



## QUALIFICATION OBJECTIVES

When you have acquired the required knowledge from this course, you will be able to:

- Explain the hazardous and disingenuous cloud computing myths and misconceptions.
- Define additional cloud terminologies and concepts.
- Identify the different virtualization aspects.
- Learn about the additional digital disruptive technologies and digitization trends.
- Understand the additional concepts in cloud security, risks, and governance.
- Identify the best practices for adopting the cloud.

## COURSE LEVEL

The course should include the following:

- Presentation material
- Every concept explanation to be followed by suitable example(s)
- Lab exercises
- Case study with related exercises used throughout the course
- Mock exam (preparation for certification)

## CERTIFICATION REQUIREMENTS

You will receive the required certification from CCC on successful completion of the Cloud Technology Associate+ exam.

## WEIGHTAGE

Requisite virtualization basics, terminologies and concepts are seamlessly blended with cloud aspects and benefits and latest digitization trends/ technologies into a holistic integrated course.



## SECTIONS

- **Cloud Computing Myths and Misconceptions**
- **Cloud Terminologies**
  - ◇ Content Delivery Network
  - ◇ Vertical Cloud
  - ◇ Virtual Private Cloud
  - ◇ Cloud Portability
  - ◇ Cloud Interoperability
  - ◇ Cloud Orchestration
  - ◇ Cloud Service Level Agreements
  - ◇ Cloud Testing
  - ◇ Chargeback
- **Virtualization**
  - ◇ Paravirtualization
  - ◇ Hardware Assisted Virtualization (Accelerated Virtualization)
  - ◇ Virtual Appliances
  - ◇ Client-Side and Server-Side Desktop Virtualization
  - ◇ Desktop Virtualization Types Comparison
  - ◇ Virtual Appliances Versus Virtual Machines: Comparison
  - ◇ Docker Containers
  - ◇ Kubernetes Containers
- **Digital Disruptive Technologies and Digitization Trends**
  - ◇ BYOD
  - ◇ Case Study: The Need for Mobile Device Management
  - ◇ Overview of Enterprise Mobility Management
  - ◇ Digital Disruption – Occurrences
  - ◇ Digital Disruption Versus Disruptive Technology



- ◇ Virtual Reality
- ◇ Augmented Reality
- ◇ Virtual Reality Versus Augmented Reality
- ◇ Bitcoin Currency
- ◇ Blockchain Technology
- ◇ Cognitive Computing
- **Cloud Security, Risks, and Governance**
  - ◇ General Cloud Computing Security Advantages
  - ◇ Cloud Computing Top Risk Areas
  - ◇ Policy and Organizational Risks
  - ◇ Technical Risks
  - ◇ Legal Risks
  - ◇ Generic Vulnerabilities in Cloud Computing
  - ◇ Other Vulnerabilities in Cloud Computing
  - ◇ Trends in Cloud Security
  - ◇ Key Governance Issues in the Cloud
- **Cloud Adoption**
  - ◇ Recommendations for a Safe and Secure Cloud Adoption
  - ◇ Cloud Migration Strategies Failure
  - ◇ Cloud Computing Failures
  - ◇ Application Migration Strategies



## LEARNING OUTCOMES

A classification widely used when creating assessments for certification and education is the Bloom's Taxonomy of Educational Objectives. This classifies learning objectives into six ascending learning levels, each defining a higher degree of competencies and skills. (Bloom et al, 1956, Taxonomy of Educational Objectives).

This structured approach helps to ensure:

- A clear segregation in learning level content between the different qualification levels.
- Learning outcomes are documented consistently across different areas of the program.
- Exam questions and papers are consistent and are created to a similar level of difficulty.

The Foundation qualification examines learning outcomes at levels 1 (Knowledge) and 2 (Comprehension).

CLOUD TECHNOLOGY ASSOCIATE+ LEARNING OUTCOMES				
	1. Knowledge	2. Comprehension	3. Application	4. Analysis
<b>Generic Definition from Learning Outcomes</b>	Know key facts, terms and concepts from the guidance.	Understand the key concepts from the guidance.	Be able to apply the concepts related to the syllabus area for a given situation.	Be able to analyze and distinguish between appropriate and inappropriate use of the method for a given situation.
<b>Qualification Learning Outcomes</b>	Know key facts, including terms, concepts, and latest technologies/ trends from the CCC Cloud Technology Associate+ program.	Understand the concepts, latest digitization trends, and virtualization in cloud computing and can explain how these are applied.		



## EXAM DETAILS

ASPECT	DETAILS
Exam Type	Multiple Choice Questions (MCQs)
Number of Questions	30
Duration	45 minutes
Provisions for additional time relating to language	15 minutes of additional time for non-native speakers
Prerequisite	It is recommended that you have completed the Cloud Technology Associate certification (or its equivalent) from the Cloud Credential Council, and/or that you are conversant with cloud concepts and vocabulary.
Supervised (Proctored)	Yes
Open Book	No
Pass Score	65%
Delivery	Online

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