

Cloud Technology Associate (CTA)

Duration 2 Days

COURSE DESCRIPTION

The CCC Cloud Technology Associate™ certification demonstrates that participants have the basic skill set and knowledge associated with cloud and virtualization. This certification is a critical step to advance your career as organizations look for qualified Cloud Technology Associates. The certification allows IT professionals to operate effectively in a cloud environment as they can demonstrate an understanding of the cloud key concepts and its relevant terminology. Furthermore, it provides the foundation needed to successfully complete subsequent vendor-specific training/ certification programs and also provides a baseline for the subsequent CCC Professional level certifications.

COURSE OBJECTIVES

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

- Identify the fundamental concepts of cloud computing and virtualization. This will also include 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.
- Understand the latest digitization trends associated with cloud computing.
- Define cloud security and identify the risks involved in cloud computing as well as the risk mitigation measures.
- List the steps to successfully adopt cloud services.

COURSE OUTLINE

Module 1: Course Introduction

At the end of this module, you will be able to:

- Identify the fundamental concepts of cloud computing and virtualization. This will also include 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.
- Understand the latest digitization trends associated with cloud computing.
- Define cloud security and identify the risks involved in cloud computing as well as the risk mitigation measures.
- List the steps to successfully adopt cloud services.

Module 2: Introduction to Cloud Services Model

At the end of this module, you will be able to:

- List the challenges and concerns for traditional computing methodology.
- Define NIST's and Gartner's definition of cloud computing.
- Explain the evolution of cloud computing and list the cloud's essential characteristics, service models, and deployment models.
- Define NIST's cloud Taxonomy (service provider versus consumer responsibility model) and Cloud Actors (service providers, consumers, auditors, carriers, brokers).
- Distinguish between traditional and cloud computing models in terms of business value.
- List the cloud computing benefits and its challenges.
- Define the various common cloud terminologies used in cloud computing.

Module 3: Introduction to Virtualization: The Backbone Technology of Cloud Computing

At the end of this module, you will be able to:

- Understand the definition, history, and fundamental concepts of virtualization including the relationship between virtualization and cloud computing.
- Understand the benefits, challenges, risks, and suitability of virtualization to organizations.
- Understand what a hypervisor is, its role in virtualization, and different types of hypervisors.
- Identify leading hypervisor manufacturers and service providers who use them.
- Understand various virtualization terminologies.
- Understand briefly about various types of virtualization (server, storage, network, desktop, application).

Module 4: The Role of Cloud and Other Technologies in Digital Transformation

At the end of this module, you will be able to:

- Understand the concepts of Big Data and Big Data Analytics, Hadoop, NoSQL databases, and their characteristics and types.
- Explain what is Internet of Things (IoT) and its types.
- Explain how cloud computing and DevOps fit together.
- Understand the latest digitization trends in Artificial Intelligence (AI) and Machine Learning (ML).

Module 5: Cloud Security, Risk, Compliance and Governance

At the end of this module, you will be able to:

- Understand general definitions of IT security, risk and risk management.
- Understand the role of IT compliance and audits.
- Understand the impact of cloud essential characteristics, cloud service models, cloud deployment models on business value and risk.
- Identify common cloud attack vectors and remediating controls.

Module 6: Preparing for Cloud Adoption

At the end of this module, you will be able to:

- Explain typical steps that lead to successful adoption of cloud computing services.
- Describe appropriate solution architectures for various service and deployment models.
- Understand organizational capabilities that are relevant for realizing cloud benefits.
- Understand the roles and capabilities of cloud computing providers, vendors, and dependencies on vendors.
- Describe multiple approaches for migrating applications.

COURSE LEVEL

The course should include the following:

- Presentation material
- Every concept explanation to be followed by suitable example(s)
- Module End Questions at the end of each module
- Activities based on concepts explained in each module
- Mock exam (preparation for certification)

Certification Requirements

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

WHO SHOULD ATTEND

- 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 and
- Others (Sales, Purchase, Audit, Legal, etc.)

PREREQUISITE

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