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# Cloud Technology Associate training and certification

ALL-IN-ONE: EXAMINATION INCLUDED IN PRICE

3 days (21 hours)

## Presentation

This certification enables IT professionals to operate effectively in a cloud environment, demonstrating an understanding of key concepts and relevant terminology. In addition, it provides the necessary foundation for successful completion of subsequent technical training/certification programs.

## Objectives

- Identify Cloud Computing and Virtualization concepts
- Evaluate the different types of Cloud and associated technologies
- Understanding the added value of the Cloud for business and IT
- Define security requirements, risks and risk mitigation measures
- Clarify the impact of the Cloud on IS governance and better manage the transition

## Target audience

Information Systems Directors (DSI), CDOs (Chief Digital Office), Architects, Project Managers, Development Engineers, Network Administrators, Maintenance, Managers, Technical Experts, Consultants and Operators

## Prerequisites

No prerequisites, but 6 months' web/internet experience and basic knowledge of archiving, servers and network technologies are desirable.

## Cloud Technology Certification Training Program

# Associate

## Introduction

- Fundamental concepts of cloud computing and virtualization
- Main technical challenges
- Characteristics of Cloud applications

## Introduction to the Cloud Service Model

- Definition of Cloud Computing according to ISO, Gartner and NIST
- Cloud evolution
- Key features of cloud service and deployment models
- NIST Cloud Taxonomy
- The added value of the Cloud for business and IT, compared with traditional models
- Advantages and limitations of Cloud Computing

## Introduction to virtualization: Cloud backbone technology

- Virtualization definition
- Advantages, risks and benefits of virtualization
- Hypervisor
  - Its role
  - The different types
  - The main manufacturers and service providers who use them
- The different types of virtualization
  - Server
  - Storage
  - Network
  - Office

## Overview of Cloud technologies and applications

- Bring Your Own Device (BYOD): concepts, benefits and limits
- Mobile Device Management (MDM) and Enterprise Mobility Management (EMM).
- Network Function Virtualization (NFV), and its relationship with Software-Defined Networking (SDN)
- Big Data, Big Data analysis frameworks, Big Data databases and storage
- The Internet of Things (IoT), basic principles and concepts.

## Cloud security, risk, compliance and governance

- Defining safety, risk and risk management,
- Compliance and audits
- Impacts of the essential characteristics of Cloud service and deployment models on IS governance and business lines
- Main attack vectors and mitigation measures

## Cloud implementation

- The main implementation stages.
- Architectures and deployment solutions.
- Service provider roles.
- Different approaches to application migration.

## Cloud Service Management (CSM)

- Cloud services management principles
- Lifecycle, players, business support
- CSM configuration, portability and interoperability
- CSM products

## Preparing for the Cloud Technology Associate (CTA) exam Passing

### the Cloud Technology Associate (CTA) exam

## Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical training: 60% Practical, 40% Theory. Training material distributed in

to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

A certificate will be issued to each trainee who completes the course.