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# AZ-104 certification training: Azure Administrator

ALL-IN-ONE: EXAMINATION INCLUDED IN PRICE

3 days (21 hours)

## Presentation

Our AZ-104 training course is a certification course for Azure administrators, enabling them to master the skills needed to manage Azure resources, ensure data security, manage identities, and maintain cloud services.

During our training course, you'll learn the fundamentals of Azure, the key services and products, and best practices for managing resources and guaranteeing their security.

You'll also be able to prepare effectively for the AZ-104 certification exam.

With [AZ-104 certification](#), you'll be able to manage and maintain Azure resources securely, optimize performance and meet your business needs.

## Objectives

- Understanding the fundamentals of Azure
- Understanding the basics of data management
- Preparing for AZ-104 certification

## Target audience

- System administrators

- Cloud engineers
- Cloud architects

## Prerequisites

- Knowledge of virtualization principles
- Be comfortable with systems and network administration
- Have an Azure account

## AZ-104 training program

### Introduction to Microsoft Azure

- Understanding basic concepts and services
- How Azure Resource Manager (ARM) works
- Migrating applications to Azure
- Azure tools: Azure CLI, Web Portal, ARM

### Fundamentals and governance

- Identity management with AAD
- Confidentiality, compliance and security
- Subscriptions, SLAs and cost management

### Infrastructure services

- Availability and resilience
- Understanding and optimizing storage
- Using virtual machines
- Configuring and securing the network

### Data management

- Understanding and using databases
- Log monitoring, management and analysis

### Modern architectures and Cloud native

- Understanding container orchestration with Azure Kubernetes Service (AKS) and Azure Container Instances (ACI)
- Message buses and serverless applications with App Services
- Introduction to Azure DevOps

## Complementary module (+1 day)

### Microsoft Azure Compute

- Infrastructure and operating principle
- Application hosting options
- IaaS vs PaaS, cloud or hybrid architecture?
- Cloud Services: Web Roles / Worker Roles
- Web Sites / Web Jobs

### SQL Azure Database

- How Azure SQL Database works
- Azure SQL Database vs SQL Server
- Azure SQL Database administration
- Configuring Azure SQL Database
- APIs and tools

## Companies concerned

This 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 course: 60% Practical, 40% Theory. Training material distributed in digital format 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.