VORTRAY

Azure Cloud Architect

Master's Program

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About the Program

Fortray's Azure Cloud Architect Master's Program will build your Microsoft Azure expertise from the ground up. You'll learn to master the architectural principles and services of Azure; design and deploy highly scalable, fault-tolerant applications; and develop skills to transform yourself into an Azure cloud architect.

Key Features

Exam Voucher
Included

20+ in-demand tools
and skills

Lifetime access to self-paced
videos & class recordings

About Fortray

Fortray is the world's #1 online bootcamp provider that enables learners through rigorous and highly specialized training. We focus on emerging technologies and processes that are transforming the digital world, at a fraction of the cost and time as traditional approaches. Over one million professionals and 2000 corporate training organizations have harnessed our award-winning programs to achieve their career and business goals.

Program Outcomes

At the end of this Azure Cloud Architect Program, you will be able to:

- ✅ Understand the main principles of cloud computing and how they have been implemented in Microsoft Azure

- ✅ Manage subscriptions, billing, and role-based access control regarding Azure users and groups

- ✅ Implement use cases and configuration options for Azure App Services and App Service environments

- ✅ Design an Azure app service web app by using Azure CLI, Powershell, and other tools

- ✅ Manage security and identity for Azure solutions

Partnerships and Certifications Alignment

This Azure Cloud Architect Master Program is aligned to the curriculum of Microsoft Azure and we are the silver training provider for this program.
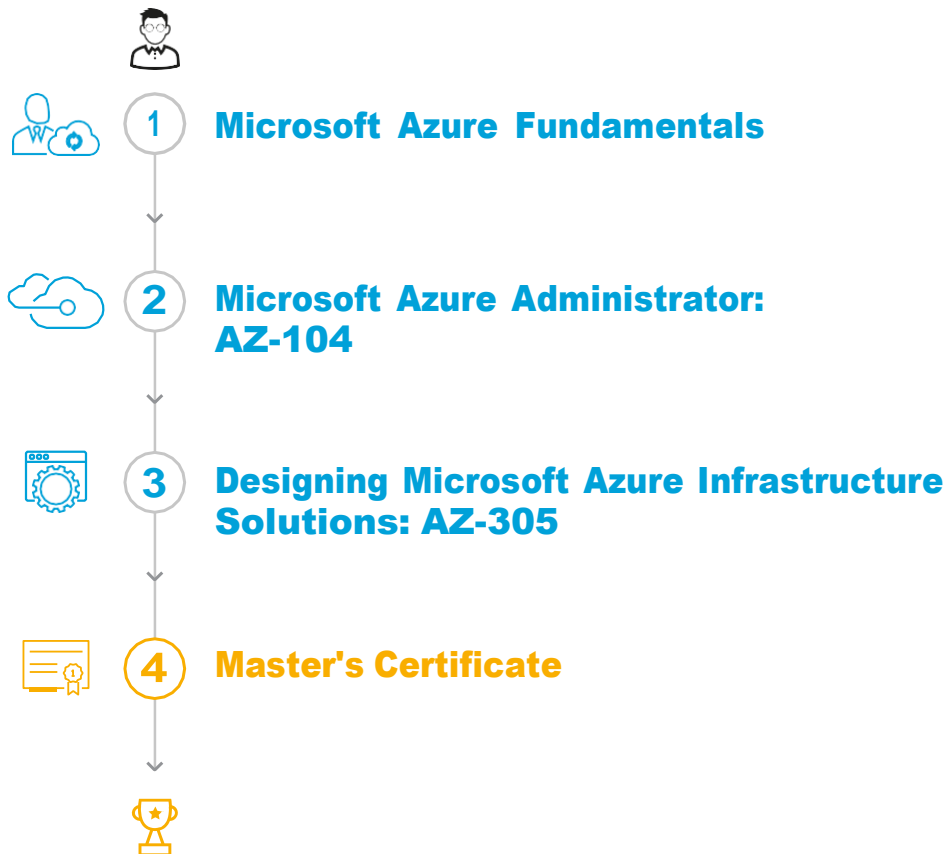
Target Audience

This program caters to those who are hoping to enter the cloud industry. The following roles and disciplines are ideal for this course:

- Fresh graduates who are intent on taking the plunge into the job market

- Any professionals who are working in either technical or non-technical job roles and want to shift to cloud domain

Learning Path

1. **Microsoft Azure Fundamentals**

2. **Microsoft Azure Administrator: AZ-104**

3. **Designing Microsoft Azure Infrastructure Solutions: AZ-305**

4. **Master's Certificate**

Electives

- Microsoft Certified Azure Developer Associate: AZ:204

Microsoft Azure Fundamentals

Fortray's Microsoft Azure Fundamentals Training Course will familiarize you withthe main principles of cloud computing and how they have been implemented in Microsoft Azure. This course will get you up to speed on Azure services, security, privacy, compliance, trust, pricing, and support.

Key Learning Objectives

After completing this course, you will be able to:

- ✓ Describe cloud computing, Azure, and Azure subscriptions

- ✓ Describe and create Azure web apps

- ✓ Create and configure VMs in Microsoft Azure

- ✓ Describe Azure storage

- ✓ Describe and deploy databases in Azure

- ✓ Describe Azure AD

Course Curriculum

- ✓ Module 01 - Cloud Concepts

- ✓ Module 02 - Core Azure Services

- ✓ Module 03 - Security, Privacy, Compliance, and Trust

- ✓ Module 04 - Azure Pricing and Support

Microsoft Azure Administrator: AZ-104

An Azure administrator often serves as part of a larger team dedicated to implementing an organization's cloud infrastructure.This Azure training course covers activities on the Azure platform such as implementing, managing, and monitoring identity,governance, storage, compute, and virtual networks in a cloud environment, plus provision, size,monitor, and adjust resources, when needed..

Key Learning Objectives

- Manage Azure Active Directory (Azure AD) objects

- Manage subscriptions and governance

- Configure Azure files and Azure Blob Storage

- Create and configure containers

- Implement and manage virtual networking

- Configure load balancing

- Integrate an on-premises network with an Azure virtual network

- Implement backup and recovery

- Manage Azure Active Directory (Azure AD) objects

- Secure & Manage storage

- Automate deployment of virtual machines (VMs) by using Azure Resource Manager templates

- Create and configure Azure App Service

- Secure access to virtual networks

- Monitor and troubleshoot virtual networking

- Monitor resources by using Azure Monitor

Course Curriculum

- Lesson 01: Manage Azure identities and governance

- Lesson 02: Implement & Manage Storage

- Lesson 03: Deploy and Manage Azure Compute Resources

- Lesson 04: Configure and manage virtual networking

- Lesson 05: Monitor and Backup Azure Resources

Designing Microsoft Azure Infrastructure Solutions: AZ-305

The Microsoft Azure Infrastructure Solutions AZ-305 online training course prepares you for a career as a certified Azure Cloud Solutions Architect. You will learn how decisions in each area affect an overall solution,insight of subject matter expertise in designing cloud and hybrid solutions that run on Microsoft Azure, including compute, network, storage, monitoring, and security.

Key Learning Objectives

After completing this online Azure certification training course, you will be able to:

- Design a solution for logging and monitoring
- Design authentication and authorization solutions
- Design identities and access for applications
- Design a data storage solution for relational data
- Recommend a data storage solution
- Design data integration
- Design a data storage solution for non-relational data
- Design a solution for backup and disaster recovery
- Design for high availability
- Design a compute solution
- Design an application architecture
- Design network solutions

Course Curriculum

- Module 01: Course Introduction

- Module 02: Design a Governance Solution

- Module 03: Design authentication solutions

- Module 04: Design Authorization

- Module 05: Design a Solution for Logging and Monitoring

- Module 06: Design for High Availability

- Module 07: Design a Solution for Backup and Recovery

- Module 08: Design a Solution for Non-Relational Data

- Module 09: Design a Solution for Relational Data

- Module 10: Design Data Integration

- Module 11: Design a Compute Solution

- Module 12: Design an Application Architecture

- Module 13: Design a Network Solution

- Module 14 : Design Migrations

- Module 15: Design for Cost Optimization

Microsoft Certified Azure Developer Associate: AZ:204

The Developing Solutions for Microsoft Azure AZ 204 online training course prepares you for a career as a certified Azure Developer Associate. This course covers all phases of development, from requirements, definition, and design to development, deployment, and maintenance.

Key Learning Objectives

- ✅ Lesson 1: Develop Azure Compute Solutions
  - Implement IaaS Solutions
  - Create Azure App Service Web Apps
  - Implement Azure Functions

- ✅ Lesson 2: Develop for Azure Storage
  - Develop Solutions That Use Cosmos DB Storage
  - Develop Solutions That Use Blob Storage

- ✅ Lesson 3: Implement Azure Security
  - Implement Use Authentication and Authorization
  - Implement Secure Cloud Solutions

- ✅ Lesson 4: Monitor, Troubleshoot, and Optimize Azure Solutions
  - Integrate Caching and Content Delivery Within Solutions
  - Instrument Solutions to Support Monitoring and Logging

- ✅ Lesson 5: Connect to and Consume Azure Services and Third-Party Services
  - Develop an App Service Logic App
  - Implement API Management
  - Develop Event-Based Solutions
  - Develop Message-Based Solutions

Program Projects

Project 1: Implement the Azure IaaS

OSS Corporation is evaluating Azure as a deployment platform. To do this they need to create virtual networks in the aforementioned region, create test virtual machines in both virtual networks, establish the connectivity between both the networks via VNet peering, and ensure connectivity is established properly.

Project 2: Using Azure Portal to Implement Security and PaaS Service

OSS Corporation has decided to onboard an employee on the company's default Azure Active Directory and assign a Custom RBAC role under which they will be able to read the network storage along with the VM. Under this custom RBAC, the employee should also be given permission to start and restart the VM. Your task is to onboard the employee under Default Azure AD, create the Custom RBAC for the role of computer operator, and provision and implement the Azure Web App.

Project 3: Azure Function Listening to a Queue 02

The InGen Soft company decided to bring serverless functionality into their application workload using the Azure function and Storage queue. As a developer, log in to the Azure Portal and create Resource Group, Storage Account, and Input Queue services. Create an Azure function using Visual Studio which also includes Queue Binding and Deployment from visual studio.

Project 4: Automating Workloads with ARM Templates

The Rand Enterprises Corporation wants to test an ARM template to bring infrastructure as code into practice. As part of the operations team, you will have to define the entire networking architecture using the ARM template. Once that's in place, you need to create the storage account along with a virtual machine to house the application.

Tools and Services Covered

Azure kubernetes Services

Elastic Beanstalk

Azure Active Directory

Azure Container Service

Azure Resource Groups

Virtual Machines

Azure Functions

iam

Azure Resource Manager

Amazon DynamoDB

DNS

Microsoft PowerShell

SQL

Azure Cosmos DB

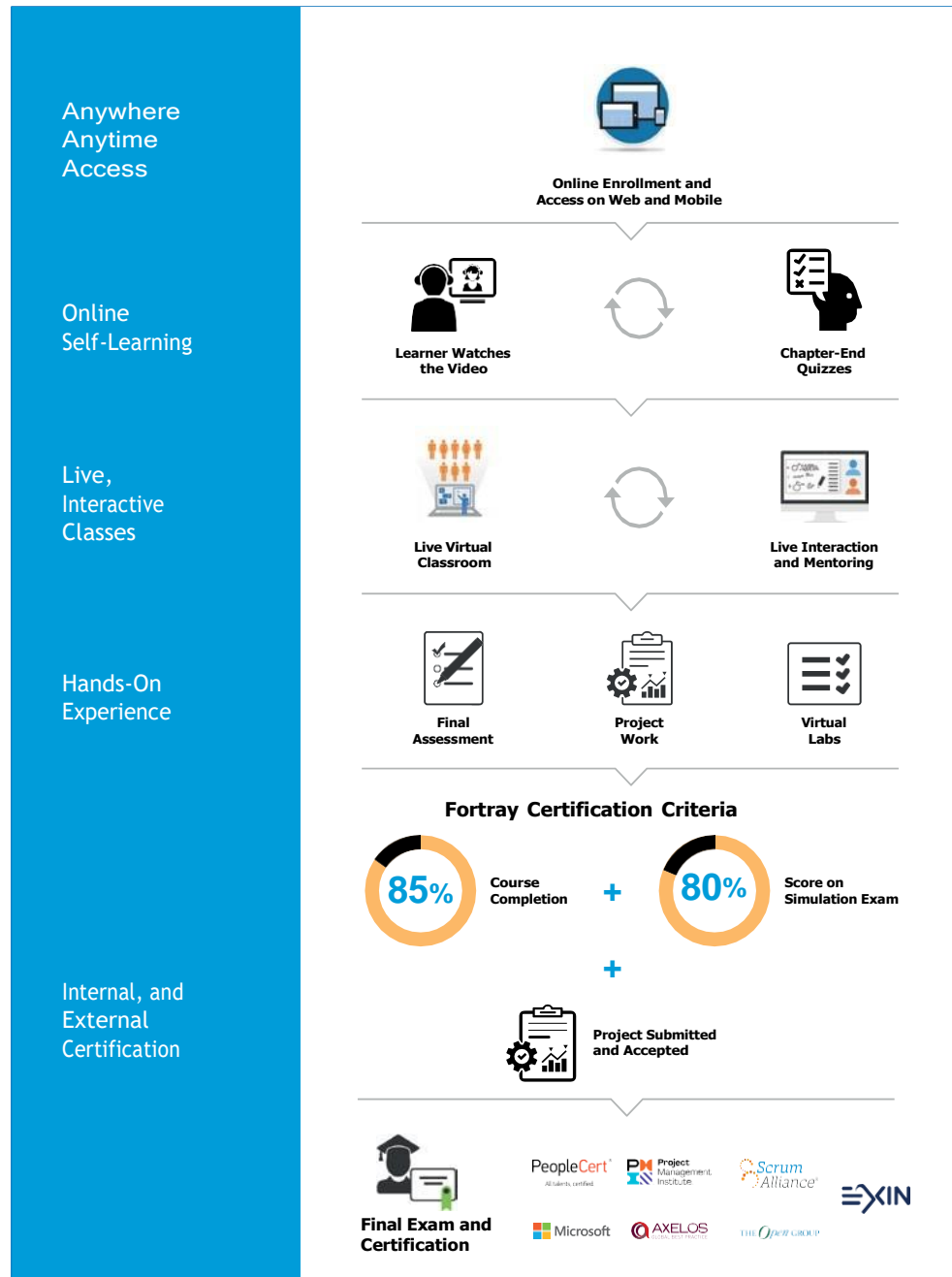Azure Resource Manager

Azure Storage Disk

Azure Security Center

Certificate

Upon completion of this Master's Program, you will also receive an industry-recognized Master's Certificate from Fortray.

Classroom-Level Immersion: Delivered Digitally

Anywhere Anytime Access

Online Enrollment and
Access on Web and Mobile

Online Self-Learning

Learner Watches
the Video

Chapter-End
Quizzes

Live, Interactive Classes

Live Virtual
Classroom

Live Interaction
and Mentoring

Hands-On Experience

Final
Assessment

Project
Work

Virtual
Labs

Fortray Certification Criteria

85% Course Completion **+** **80%** Score on Simulation Exam

+

Project Submitted
and Accepted

Internal, and External Certification

Final Exam and Certification

PeopleCert · Project Management Institute · Scrum Alliance · EXIN · Microsoft · AXELOS · THE Open GROUP

Corporate Training

Top clients we work with:

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mastercard	Microsoft	pepsi	DELL	Capgemini	TATA CONSULTANCY SERVICES
HSBC	CISCO	Mondelēz International	vmware	accenture	THE WORLD BANK
BARCLAYS	IBM	Mercedes-Benz	GE	BOEING	orange
UBS	hp	Ford	pwc	Pfizer	WPP
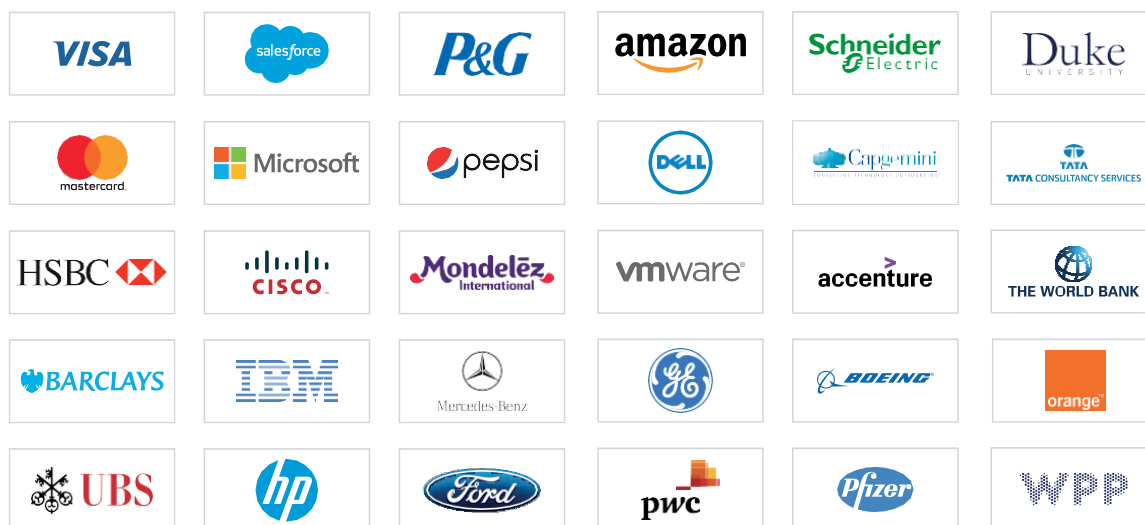
Features of Corporate Training:

Tailored learning solutions

Flexible pricing options

Enterprise-grade learning management system (LMS)

Enterprise dashboards for individuals and teams

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