

Developing For The Cloud (AZ-300.6)

Modality: Self-Paced Learning

Duration: 24 Hours

SATV Value:

CLC:

NATU:

SUBSCRIPTION: Learn, Master

This course prepares you for the AZ-300 Exam leading to AZ-300 Certification. This course does not include the Official Exam Voucher, however, you can request to purchase the **Official Exam Voucher** separately.

About this course:

Learn how to configure a message-based integration architecture, develop for asynchronous processing, create apps for autoscaling, and better understand Azure Cognitive Services solutions.

Course Objective:

After completing this course, students will be able to:

- How to configure a message-based integration architecture
- Understand how to Develop for Asynchronous Processing
- Begin creating apps for Autoscaling
- Understand Azure Cognitive Services Solutions

Audience:

- Successful Cloud Solutions Architects begin this role with practical experience with operating systems, virtualization, cloud infrastructure, storage structures, billing, and networking.

Prerequisite:

- practical experience with operating systems, virtualization, cloud infrastructure, storage structures, billing, and networking.

Course Outline:

Module 1 - Developing Long-Running Tasks and Distributed Transactions

- Implement large-scale, parallel, and high-performance apps by using batches
- Implement resilient apps by using queues
- Implement code address application events by using webhooks

- Review Questions
- Module 1 Assessment

Module 2 - Configuring a Message-Based Integration Architecture

- Configure an app or service send emails
- Configure an event publish and subscribe model
- Configure the Azure Relay service
- Create and configure a notification hub
- Create and configure an event hub
- Create and configure a service bus
- Configuring apps and services with Microsoft Graph
- Review Questions
- Module 2 Assessment

Module 3 - Developing for Asynchronous Processing

- Implement parallelism, multithreading, and processing
- Implement Azure Functions and Azure Logic Apps
- Implement interfaces for storage or data access
- Implement appropriate asynchronous computing models
- Online Lab:
- Review Questions
- Module 3 Assessment

Module 4 - Developing for Autoscaling

- Implement autoscaling rules and patterns
- Implement code that addresses single application instances
- Implement code that addresses a transient state
- Review Questions
- Module 4 Assessment

Module 5 - Developing Azure Cognitive Services Solutions

- Cognitive Services Overview
- Develop Solutions using Computer Vision
- Develop Solutions using Bing Web Search
- Develop Solutions using Custom Speech Service
- Develop Solutions using QnA Maker
- Working with the Azure IoT Hub
- Review Questions
- Module 5 Assessment