



## Azure

### AZPI: Cloud-Based Integration Using Azure Logic Apps

The Azure cloud platform offers a vast variety of diverse services to help enterprises build powerful solutions. Learn how to build cloud-hosted integration solutions that utilize the power of Microsoft Azure.

\$3,495.00

- 5 Days

## Upcoming Dates

## Course Description

In this course, students learn how to create enterprise-grade integration solutions using *Logic Apps*, *API Apps*, the *Enterprise Integration Pack*, and *Azure Service Bus*.

At the core of the course is *Logic Apps* and how to use this cutting-edge technology to build integration workflows. However, Logic Apps primarily provide process orchestration and API integration. In order to build well-rounded enterprise integrations, you may desire publish-subscribe capabilities, hybrid connectivity, and VETER pipelines. As a result, you will see how to interact with other Azure services such as Azure Service Bus, as well as on-premises systems like SQL Server, and how you can add to the out-of-the-box tools in Logic Apps with the Enterprise Integration Pack.

This 5-day course offers the full picture for developers who need to build integration solutions using the Azure platform, and gives students about 20 hours of hands-on lab time in which they will build several integration solutions.

In this course, attendees will receive live instruction from one of our expert trainers, in-classroom demonstrations, challenging hands-on labs, and an electronic copy of the presentation materials and lab guide with hands-on activities.

Participants in this course will need an Azure subscription, or the ability to create a free trial subscription.

## Course Outline

### Module 1: Introduction to Logic Apps and Cloud-Based Integration

- Microsoft Integration Platform Vision
- Logic App Technology Primer
- Building a Simple Logic App

### Module 2: Setting Up an Azure App Service Development Environment

- Components of Hybrid Integrations
- Setting Up a Development Environment

### **Module 3: Introduction to Logic Apps**

- Logic App Fundamentals
- Anatomy of a Logic App
- Intro to Logic Apps Expressions
- Manual Testing and Troubleshooting

### **Module 4: Using Azure Resource Groups as an Application Lifecycle Container**

- Resource Groups Fundamentals
- Working with Resource Groups
- Managing Resource Deployments Using Team Foundation Server

### **Module 5: Advanced Logic Apps**

- Conditional Execution
- Calling External Logic
- Exception Handling
- Looping Through Data
- Tracking

### **Module 6: Building Enterprise Application Integration (EAI) Apps Using Azure App Service**

- EAI Concepts
- Implement VETERO Using Logic Apps
- Enabling Hybrid Integrations
- Introducing the Enterprise Integration Pack

### **Module 7: Creating Schemas**

- Introduction to Schemas
- Creating XML Schemas
- Schemas for Non-XML Messages
- Introduction to Logic Apps and Cloud-Based Integration
- Microsoft Integration Platform Vision
- Logic App Technology Primer
- Building a Simple Logic Apps

### **Module 8: Mapping Data Using Transforms**

- Introduction to Maps
- Manipulating Data Using Functoids
- Getting the Most out of the Mapper

### **Module 9: Introduction to Microsoft Azure Service Bus**

- What Is Service Bus?
- Working with Queues
- How Service Bus Handles Failures

## **Module 10: Implementing a Publish/Subscribe Model Using Service Bus**

- Theory of Topics and Subscriptions
- Interacting with Topics and Subscriptions Programmatically

## **Module 11: Architecting Cloud Integration Solutions**

- Reviewing Core Technologies
- Workshop: Full Day Workshop
- Lab 11A: Building EAI Apps Using Azure App Service
- Lab 11B: Advanced Apps with Azure App Service
- Lab 11C: Building Request/Response Logic Apps

## **Module 12: Building Custom API Apps**

- Anatomy of an API App
- Fundamentals of Web API
- Hello API App World
- Debugging API Apps
- Creating Deployment Templates for Custom APIs

## **Module 13: Building Custom Triggers**

- Concepts of Triggers
- Creating Polling Triggers

## **Audience**

This course is designed for experienced .NET developers with a strong desire to learn about Microsoft's new Integration options using Azure Logic Apps.

## **Prerequisites**

Attendees should be proficient with C# and have some familiarity with ASP.NET, MVC, and Web API.

## **What You Will Learn**

At the completion of this course, attendees will be able to:

- Manage the Application Lifecycle using Azure Resource Groups
- Create Azure resources using the Azure Resource Manager and Azure Portal
- Connect to on-premises systems using the on-premises data gateway
- Create schemas for Azure API Apps
- Build maps for the BizTalk Transform Service API App
- Manage Enterprise Integration Pack assets using an Integration Account

- Interact with Azure Service Bus topics, subscriptions, and queues manually and programmatically
- Build complex workflows using Logic Apps to perform forking, merging, loops, parallel execution, and exception handling
- Build custom API Apps including triggers and actions
- Included is a full day workshop where attendees will build a complete end-to-end integration using Logic Apps, API Apps, and Azure Service Bus