



BizTalk Server

BTDI16: BizTalk Server 2016 Developer Immersion

This course is designed to educate .NET developers on how to create enterprise-class integration solutions using Microsoft BizTalk Server.

\$3,495.00

- 5 Days

Upcoming Dates

Course Description

Integration takes many forms, from simply moving files between an FTP site and a local file share, to complex trading partner connections using Electronic Data Interchange (EDI), and everything in between. BizTalk Server is Microsoft's flagship integration technology and is used by companies all over the world to solve integration problems big and small.

This intensive, yet entertaining and engaging, guided tour of BizTalk Server teaches developers the core skills needed to build integration applications.

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.

Course Outline

Module 1: BizTalk Server Overview

- What Is BizTalk Server
- BizTalk Components and Capabilities
- What's New in BizTalk Server
- BizTalk Server Tools and Tasks

Module 2: Creating BizTalk Schemas

- Introduction to BizTalk Schemas
- Creating Schemas
- Creating Custom Data Types
- Schemas for Non-XML Messages

Module 3: Creating BizTalk Maps

- Creating a BizTalk Map
- Manipulating Data Using Functoids
- BizTalk Mapper Usability Features

Module 4: Deploying BizTalk Applications

- Deploying Fundamentals
- Deploying Assemblies

- Working with Binding Files
- Deploying Using MSI Packages

Module 5: Enabling Message Routing Using Ports

- Introduction to Message Routing
- Configuring Message Routing
- Monitoring BizTalk Processes
- Enabling Tracking and Viewing Tracked Data

Module 6: Troubleshooting BizTalk Runtime Exceptions

- Troubleshooting Issues Using the Group Hub

Module 7: The BizTalk Server Runtime Hosting Model

- Concepts of Hosts and Host Instances
- Managing BizTalk Hosts and Host Instances

Module 8: Tracking BizTalk Server Activity

- Enabling Tracking and Viewing Tracked Data
- How Does Tracking Really Work?

Module 9: Creating Pipelines

- Introduction to Pipelines
- Building Custom Pipelines

Module 10: Basic Orchestration Design

- Introduction to BizTalk Orchestration
- Building an Orchestration

Module 11: Advanced Orchestration Design

- Orchestration Shapes
- Logical Port Binding Options
- Implementing Correlation
- Invoking Orchestrations

Module 12: Introduction to WCF Adapters and Two-Way Communication

- Communication with Two-Way Services
- Adapter Hosting Models
- Concepts of BizTalk Server's WCF Adapters

Module 13: RESTful API Integration

- RESTful APIs 101
- Address Templating
- HTTP Verbs, Headers, and Response Codes
- Working with JSON Encoded Messages
- Preprocessing Messages with IIS Modules

Module 14: Integrating with Databases Using the WCF-SQL Adapter

- Generating BizTalk Artifacts from Database
- Registering the WCF-SQL Adapter

Module 15: Integrating with Azure Service Bus

- What Is Service Bus?

- Connecting to Service Bus

Audience

This course is intended for experienced .NET Developers who are new, or relatively new, to BizTalk Server development and want to take their place as a valuable member of any BizTalk development team.

Prerequisites

Students should be experienced with .NET development (C# or VB .NET), working with Visual Studio, and the concepts of SQL Server databases. Prior experience with web services and XML is also desirable.

What You Will Learn

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

- Automate deployment using MSIs and scripts
- Create and configure XML and flat file schemas
- Transform messages using maps
- Manipulate data using Functoids
- Enable message routing and processing using receive and send ports
- Troubleshoot exceptions
- Enable tracking of BizTalk Server activity
- Create and configure pipelines to process XML, flat file, and EDI data
- Create orchestrations to automate critical business processes
- Implement orchestration patterns such as correlation and direct-bound ports
- Integrate with ASMX, WCF, PHP, JAVA, and REST services
- Implement a variety of adapters
- Integrate with trading partners and applications using EDI - After Hours
- Develop Business Rules Engine (BRE) policies - After Hours
- Enable Business Activity Monitoring (BAM) - After Hours