

Take your skills to the next level with this advanced class for experienced BizTalk Server developers



Are you a BizTalk Developer that knows *what* to do but you are unsure *why* you do it? If so, you need to BizTalk Server Developer Deep Dive. This class focuses on best-practices & pattern-based design while pulling back the curtain on some of BizTalk Server's eccentricities. This class guarantees to challenge the way you think about BizTalk Server application design.

Flexible Learning Options

Attend in Person

- Industry expert trainers
- Relevant training skills
- High-tech teaching tools

Connect Remotely

- Classroom-in-the-cloud
- Connect from anywhere
- 24-hour access to labs

Bring Us Onsite

- Customized curriculum
- Connect staff from multiple locations
- Access hands-on labs over the Internet

"After the first few days of training, I looked over some of my existing BizTalk deployments & immediately saw ways to improve & streamline."
-Eric B.

"This is one of the best learning sessions I've ever had." -Rahul J..

Course Highlights

At course completion, students will be able to:

- Create custom functoids
- Design maps that execute custom XSLT
- Create EDI-based solutions to receive, send, & batch messages
- Create messaging solutions that de-batch flat-file & XML interchanges
- Build processes that subscribe to failed messages
- Create custom pipeline components
- Integrate with SQL Server databases using the WCF-SQL adapter
- Create loosely-coupled orchestrations using direct-bound ports
- Properly utilize the Call Orchestration & Start Orchestration shapes
- Develop applications that use dynamic send ports
- Implement complex orchestration patterns including: external code invocation, convoys, transactions & compensation, & exception handling
- Aggregate message instances using an orchestration & send pipeline
- Create a role & party-based integration solution
- Create business-rule vocabularies & policies
- Create custom tracking solutions using Business Activity Monitoring
- Extend visibility to custom .NET application using the BAM API

Audience

This course is intended for:

- **Experienced Developers** – who have previously attended the *BizTalk Server Developer Immersion* course and have at least 12 months hands-on experience implementing BizTalk Server solutions.

Course Outline

Module 1: Review of BizTalk Server Fundamentals

- BizTalk Server Architecture
- Lab: Creating a BizTalk Solution

Module 2: Inner Workings of the Messaging Engine

- Lesson 1: Messaging Engine Deep Dive
- Lesson 2: Two-way Messaging Without Orchestrations

Module 3: Designing and Testing Schemas

- Lesson 1: Schema Design
- Lesson 2: Enabling Unit Testing for BizTalk Projects
- Lab: Creating Reusable Types in a Schema

Module 4: Data Translation and Transformation

- Lesson 1: Custom Data Transformation
- Lab: Creating Custom Functoids
- Lab: Transforming Messages using Custom XSLT
- Lesson 2: Creating Custom Pipeline Components
- Lab: Creating Custom Pipeline Components

Module 5: Working with Message Interchanges

- Lesson 1: De-Batching Message Interchanges
- Lab: Processing Flat-File Interchanges
- Lab: Processing XML Interchanges

Module 6: Advanced Concepts of WCF Adapters

- Lesson 1: Connecting to External Systems
- Lesson 2: Using WCF LOB Adapters in BizTalk Server
- Lab: Executing Composite Operations Using the WCF-SQL Adapter



Module 7: Publishing and Consuming WCF and RESTful Services

- Lesson 1: Overview of Service Integration Using WCF
- Lesson 2: Implementing WCF Services
- Lab: Building a Service Aggregator Orchestration
- Lab: Exposing BizTalk Processes as Services

Module 8: Advanced Orchestration Communication Patterns

- Lesson 1: Orchestration Engine Deep Dive
- Lesson 2: Splitting and Aggregating Messages using Orchestrations
- Lesson 3: Orchestration Communication
- Lab: Orchestration Communication Patterns

Module 9: Bridging the Synchronous/Asynchronous Gap Across Multiple Channels

- Lesson 1: Correlating Messages in Orchestration Instances
- Lesson 2: Building Convoy Orchestrations
- Lab: Creating Convoys

Module 10: Handling Orchestration Faults and Exceptions

- Lesson 1: Exception Handling in Orchestrations
- Lab: Configuring Exception Handling

Module 11: Implementing Transactions and Compensation

- Lesson 1: Creating Transactional Processes
- Lab: Implementing Transactions and Compensation

Module 12: Designing Custom Tracking Models for BizTalk Applications

- Lesson 1: Introduction to Business Activity Monitoring
- Lesson 2: Enabling Business Activity Monitoring
- Lesson 3: Extending BAM Beyond BizTalk
- Lab: Creating a Simple BAM Solution
- Lab: Gathering Data Using the BAM API



Module 13: Building Declarative Logic Using the Business Rules Engine

- Lesson 1: Concepts of Declarative Logic
- Lesson 2: Fundamentals of BizTalk BRE
- Lesson 3: Integrating Policies with BizTalk
- Lab: Building and Using Declarative Logic in a BizTalk Application

Module 14: Advanced Concepts of the Business Rules Engine

- Lesson 1: Advanced Business Rule Concepts
- Lesson 2: Working with Advanced Facts

Module 15: Integrating Across Business Boundaries Using Parties, Roles, and EDI

- Lesson 1: Port Binding Option Review
- Lesson 2: Role-Based Integration
- Lesson 3: What is EDI?
- Lesson 4: Enabling EDI-Based Messaging
- Lab: Create a Role and Party-Based Integration Solution