

BizTalk Server 2016 Developer Deep Dive

Duration	5 days	Remote Enabled	Yes
Skill level	Advanced	Guaranteed to Run	Yes
Audience	Developer		
Products and technologies	<p>The following products and technologies will be utilized in this course:</p> <ul style="list-style-type: none"> • BizTalk Server • C# .NET • XSLT • XML • WCF 		

Course Description

As a BizTalk Server developer, you know that learning BizTalk Server can be difficult. You've seen the power of BizTalk Server and know that there's more waiting for you to tap into. QuickLearn Training can take you from novice to expert in just five days of training!

This course is designed specifically for experienced BizTalk Server developers and focuses on best practices & pattern-based design while pulling back the curtain on some of BizTalk Server's eccentricities. This course gives the deepest coverage of the BizTalk Server development topics that you need to know. We guarantee to challenge the way you think about BizTalk Server application design and development.

In this 5-day course, you will learn how to apply best practices and design patterns to build smarter BizTalk Server applications. Furthermore, this course provides extensive coverage of BizTalk Server's extensibility, including such topics as: custom functoids, custom pipeline components, and invoking external .NET methods.

This course is intended for previous attendees of our [BizTalk Server Developer Immersion](#) course who have at least one year of hands-on experience developing BizTalk Server application solutions and wish to deepen their existing skill and knowledge.

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.

This is an [advanced-level course](#). Attendees are expected to have working experience as BizTalk Server application developers. The lectures and labs in this course assume that attendees have been through the typical lifecycle of a BizTalk Server application at least once.

Course Objectives

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

- Create and implement custom simple and complex types in schemas
- Call external assemblies using the Scripting Functoid
- Create custom functoids
- Test BizTalk Server code artifacts using Visual Studio tests
- Create messaging solutions that de-batch flat-file & XML interchanges
- Build processes that subscribe to failed messages
- Create custom pipeline components
- Publish and host RESTful APIs using the WCF-WebHttp adapter
- Integrate with SQL Server databases using the WCF-SQL adapter
- Create loosely coupled orchestrations using direct-bound ports
- Properly utilize the Call Orchestration and Start Orchestration shapes
- Develop applications that utilize dynamic send ports
- Implement complex orchestration patterns, including: external code invocation, convoys, transactions and compensation, and exception handling
- Aggregate message instances using an orchestration & send pipeline
- Create a role- and party-based integration solution
- Create business-rule vocabularies and polices
- Create EDI-based solutions to receive, send, and batch messages
- Create custom tracking solutions using Business Activity Monitoring
- Extend visibility to custom .NET application using the BAM API

Audience

Experienced BizTalk Server Developers who have at least one year of hands-on experience developing BizTalk Server applications.

Prerequisites

Students should have experience with core BizTalk Server development concepts and skills. The course assumes that attendees already know how to create schemas, maps, pipelines, and orchestrations, and are looking to enrich their understanding of these components, applying patterns and best practices to build smarter applications.

Student Testimonials

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

Eric B. BizTalk Developer Deep Dive ”

” This is one of **the best learning sessions** I've ever had.

Rahul J. BizTalk Developer Deep Dive ”

Module Listing

1	Review of BizTalk Server Fundamentals <ul style="list-style-type: none">The BizTalk Server Architecture	9	Bridging the Synchronous/Asynchronous Gap Across Multiple Channels <ul style="list-style-type: none">Correlating Messages in Orchestration InstancesBuilding Convoy Orchestrations
2	Inner Workings of the Messaging Engine <ul style="list-style-type: none">Messaging Engine Deep DiveTwo-way Messaging Without Orchestrations	10	Handling Orchestration Faults and Exceptions <ul style="list-style-type: none">Exception Handling in Orchestrations
3	Designing and Testing Schemas <ul style="list-style-type: none">Schema DesignEnabling Unit Testing for BizTalk Projects	11	Implementing Transactions and Compensation <ul style="list-style-type: none">Creating Transactional Processes
4	Data Translation and Transformation <ul style="list-style-type: none">Custom Data TransformationCreating Custom Pipeline Components	12	Designing Custom Tracking Models for BizTalk Applications <ul style="list-style-type: none">Introduction to Business Activity MonitoringEnabling Business Activity MonitoringExtending BAM Beyond BizTalk
5	Working with Message Interchanges <ul style="list-style-type: none">Debatching Message Interchanges	13	Building Declarative Logic Using the Business Rules Engine <ul style="list-style-type: none">Concepts of Declarative LogicFundamentals of BizTalk BREIntegrating Policies with BizTalk
6	Advanced Concepts of WCF Adapters <ul style="list-style-type: none">Connecting to External SystemsUsing WCF LOB Adapters in BizTalk Server	14	Advanced Concepts of the Business Rules Engine <ul style="list-style-type: none">Advanced Business Rule ConceptsWorking with Advanced Facts
7	Publishing and Consuming WCF and RESTful Services <ul style="list-style-type: none">Overview of Service Integration Using WCFImplementing WCF ServicesPreprocessing Messages with IIS ModulesConsuming Services	15	Integrating Across Business Boundaries Using Parties, Roles, and EDI <ul style="list-style-type: none">Port Binding Option ReviewRole-Based IntegrationWhat is EDI?Enabling EDI-Based Messaging
8	Advanced Orchestration Communication Patterns <ul style="list-style-type: none">Orchestration Engine Deep DiveSplitting and Aggregating Messages using OrchestrationsOrchestration Communication		