IBM App Connect Enterprise 12 Application Development I & II

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Course Description:

In this course, you learn how to construct message flow applications to transport and transform data. You learn how to process file data and develop REST APIs. The course also explores how to control the flow of data by using various processing nodes, and how to import, build, and test message flow applications. You learn how to test your message flows by using the Flow Exerciser, Message Flow Debugger, and Trace nodes.

Course Objectives:

- Describe the features and uses of IBM App Connect Enterprise
- Develop, deploy, and test message flow applications
- Generate message flow applications from predefined patterns
- Describe the function and appropriate use of IBM App Connect Enterprise processing nodes
- Use the IBM App Connect Enterprise web user interface to monitor an integration server and a message flow
- Add flow control to a message flow application
- Create reusable subflows
- Process file data in message flows
- Test message flows by using the message flow debugger
- Develop and test REST APIs
- Build a message flow that manages workload distributions between two integration nodes
- Develop a message flow that manages workload distributions between two integration nodes by using IBM MQ
- Design a message flow that reads from and writes to a Java Messaging Service destination queue

- Create a message flow that transforms an XML input into a JSON Array output structure using a Mapping node
- Create a Data Format Description Language (DFDL) message model schema in a shared library and test it by parsing the input data
- Develop an application that serializes a message with an XML message as input
- Transform messages using the Compute or a JavaCompute node
- Design a message flow that reads from and writes to a database by using Open Database Connectivity (OBDC) and Java Database Connectivity (JDBC) connectionsÃ‚
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Exercises for

- Exercise 1. Importing and testing a message flow
- Exercise 2. Create a message flow application
- Exercise 3. Adding flow control to a message flow application
- Exercise 4. Processing file data
- Exercise 5. Developing a REST API
- Exercise 6. Invoking a REST API
- Exercise 7. Testing message flows
- Exercise 8. Connecting to IBM MQ
- Exercise 9 Java Message Service processing
- Exercise 10 Using a Mapping node to create a JSON Array message
- Exercise 11. Creating a Data Format Descriptive Language (DFDL) model
- Exercise 12 Transforming data by using the Compute or Java Compute node
- Exercise 13 Referencing a database in a map
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Audience:

This course is designed for experienced integration specialists and senior-level developers with experience in application development and messaging middleware applications interested in becoming an IBM App Connect Enterprise Developer.

Course Duration:

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Course Topics:

- **Course introduction - IBM App Connect Enterprise 12 Application Development I**
- Unit 1. Introduction to IBM App Connect Enterprise
- Unit 2. Application development fundamentals
- Exercise 1. Importing and testing a message flow
- Unit 3. Creating message flow applications

- Exercise 2. Create a message flow application
- Unit 4. Controlling the flow of messages
- Exercise 3. Adding flow control to a message flow application
- Unit 5. Processing file data
- Exercise 4. Processing file data
- Unit 6. Developing integration solutions by using a REST API
- Exercise 5. Developing a REST API
- Exercise 6. Invoking a REST API
- Unit 7. Testing message flows
- Exercise 7. Testing message flows

- **Course introduction - IBM App Connect Enterprise 12 Application Development II**
- Unit 1. Connecting to IBM MQ
- Exercise 1. Connecting to IBM MQ
- Unit 2. Processing JMS, HTTP, and web service messages
- Exercise 2. Java Message Service processing
- Unit 3. Using a Mapping node to create a JSON array message
- Exercise 3. Using a Mapping node to create a JSON Array message
- Unit 4. Modeling the data
- Exercise 4. Creating a Data Format Descriptive Language (DFDL) model
- Unit 5. Using Compute nodes to transform messages
- Exercise 5. Transforming data by using the Compute or Java Compute node
- Unit 6. Referencing a database in a message flow application
- Exercise 6. Referencing a database in a map
- Course summary