

Day 1

1. Introduction to IBM Integration Bus
 - Explain need for Business Integration and Transformation
 - Overview of IBM Integration Bus
 - List and explain functions of primary components of IIB
 - Explaining Messaging concepts, Message flows, Message Models and Nodes.
 - All important features of IBM Integration Bus
2. Design and Setup Considerations
 - Briefly review roles and responsibilities IIB components
 - Discuss setting up IIB development environment
 - Installation steps for IIB Tool Kit / Integration Server
 - **Exercise 1** – Setting up the development domain
3. Introduction to Integration Bus Toolkit
 - Demonstrate the Integration Bus Toolkit
 - Explain the components of Toolkit
 - Demonstrate steps to create/test message flow using the Toolkit
 - Discuss components of IIB messages

Day 2

4. Working with Integration Bus Basic Nodes
 - Demonstrate using supplied nodes and describe use of most common ones
 - Explain message flow behaviors
 - Describe the different debugging techniques
 - Discuss IIB message parts and parsing
 - Explain various transformation options available
 - Briefly discuss coding basic ESQL statements
 - **Exercise 2** - Manipulating a message using ESQL
 - Explain working with databases
 - **Exercise 3** - Working with databases and subflows
 - **Exercise 4** – Updating a database using ESQL
 - **Exercise 5** - Using the DatabaseRetrieve node
5. Deep Dive into ESQL and Java Compute Node
 - Explain reference variables to process message trees
 - Discuss shared variables
 - Simple, Complex Comparison Operators
 - Conditional Statements
 - Various looping statements
 - SELECT statements use and its advantages
 - **Exercise 6** - Caching a database table to improve performance
 - **Exercise 7** - Implementing reference variables in ESQL
 - **Exercise 8** - Implementing Java Compute Node in message flow

Day 3

6. Message Modeling using DFDL
 - Explain storing message layouts in the Toolkit
 - Describe implementation of message models
 - Examine shared libraries
 - Demonstrate import/use of C, XML and COBOL structures in the Toolkit
 - **Exercise 9** – Creating and working with a message model using DFDL
 - **Exercise 10**– Importing to create a message model
 - **Exercise 11**– Working with XML models
7. Routing data through message flows
 - Discuss Route, RouteToLabel, Label and DatabaseRoute nodes
 - **Exercise 12** - Working with routing techniques
8. Additional input and output options
 - Describe Timer nodes
 - **Exercise 13** – Implementing a time based flow

Day 4

9. Using File and email nodes
 - Explain File nodes
 - Discuss Email nodes
 - **Exercise 14** – Working with files in a message flow
10. Web Service Support
 - Describe Web Service support for Integration Bus
 - Discuss using the HTTP Nodes
 - Explain using SOAP nodes
 - RESTful API support in V10
 - **Exercise 15** – Implementing a SOAP message flow
 - **Exercise 16** – Creating an Integration Service
 - **Exercise 17** – Implementing a RESTful API in IIB (V10-optional)
11. Using kafka Nodes
 - Discuss Kafka Input and Output Nodes
 - **Exercise 18** – Working with Kafka nodes

Day 5

12. Publish/Subscribe Updates
 - Explore Pub/Sub uses
 - List steps to implement an IIB V10 pub/sub flow
 - **Exercise 19** – Implementing pub/sub in v10
13. Problem Determination tools
 - Explain message flow behaviors
 - Describe the different debugging techniques

- **Exercise 20** – Working with problem determination tools (Trace nodes, User Trace, Integrated Test Client, Debugger, Error Logs, The Exception List tree)
14. Monitoring Profiles
 15. Basic MQSI commands

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