

# IBM INTEGRATION BUS

By Dr. Vishwanath Rao

You should have:

- A basic understanding of current IT technologies such as Structured Query Language (SQL), Extensible Markup Language (XML), Java, **and** XML Path language (XPath)
- An understanding of the business needs of your organization
- A basic understanding of transport protocols such as HTTP and FTP, **and** message-oriented middleware such as Java Message Service (JMS) **and** IBM MQ

Resource : IBM Education standards

Day 1

- Course introduction
- Introduction to IBM Integration Bus
- Application development fundamentals
- Exercise: Importing and testing a message flow
- Creating message flow applications
- Exercise: Creating a message flow application
- Connecting to IBM MQ
- Exercise: Connecting to IBM MQ

Day 2

- Controlling the flow of messages
- Exercise: Adding flow control to a message flow application
- Modeling the data
- Exercise: Creating a DFDL model
- Processing file data
- Exercise: Processing file data

Day 3

- Using problem determination tools and help resources

- Exercise: Using problem determination tools
- Exercise: Implementing explicit error handling
- Mapping messages with the Graphical Data Mapping editor
- Referencing a database in a message flow application
- Exercise: Referencing a database in a map

#### Day 4

- Using Compute nodes to transform messages
- Exercise: Transforming data by using the Compute and JavaCompute nodes
- Processing JMS, HTTP, and web service messages
- Preparing for production
- Exercise: Creating a runtime-aware message flow

#### Day 5

- Create and implement a database service definition
- Configure security-enabled message processing nodes
- Create a decision service that implements business rules to provide routing, validation, and transformation
- Expose a set of integrations as a RESTful web service
- 
- Course summary