✅ IBM Sterling B2B Integrator – 11-Day Training Agenda

Duration: 11 Days (4 Hours/Day) – 44 Hours
Mode: Instructor-Led with Hands-On Labs

Day 1: Introduction & Core Concepts + BPML Basics

- Overview of IBM Sterling B2B Integrator (SI)
- Key Features, Architecture & Topologies
- BPML Concepts: Syntax, Process Data, Services, XPath Basics
- Components: Adapters, Services, BPs

💻 **Lab Exercises:**

- Accessing SI Dashboard and exploring Admin Console
- Creating a simple “Hello World” BP using BPML
- Executing and monitoring the BP in Business Process Monitor
- Viewing Process Data in Graphical Process Monitor

Day 2: Business Process Modeling (BPML) – Advanced

- Loops, Branching, Error Handling (OnFault)
- Subprocesses and Reusability
- Debugging Techniques

💻 **Lab Exercises:**

- Create BP using looping constructs to process multiple files
- Implement OnFault error handling logic and test failure scenarios
- Design reusable subprocess and invoke it from parent BP
- Debug BP using Business Process Trace feature

Day 3: Graphical Process Modeler (GPM)

- GPM Interface Walkthrough
- Creating, Editing, Validating BPs
- Validating and Exporting BPs
- Deployment – BP from one env to other env(Export/Import)

💻 **Lab Exercises:**

- Create a multi-step BP using GPM (file pickup → transform → delivery)
- Validate BP using GPM Validation Tool
- Export and import BP between test and production environments
- Use the deployment wizard to verify configuration consistency

Day 4: Services and Adapters – Part 1

- Service vs. Adapter Concepts
- File System, FTP/SFTP, HTTP(S) Service
- Database Adapter Configuration
- HTTP/HTTPS Adapter setup

💻 **Lab Exercises:**

- Configure File System and FTP Adapter to transfer data
- Create BP using HTTP Client and Server Services
- Configure Database Adapter to insert/read data from DB
- Verify adapter logs and connection tests

Day 5: Services and Adapters – Part 2 + Integration Case Study

- Advanced Service Configuration
- Translation, EDI, Envelope Services
- Custom Services Overview
- Case Study: End-to-End Integration with Adapters

💻 **Lab Exercises:**

- Configure and execute Translation Service with EDI → XML conversion
- Use Envelope Service for outbound EDI message packaging
- Create and test a Custom Service with simple Java logic
- Case Study: End-to-End BP integrating File Pickup, Translation, and Delivery

Day 6: SFG

- Overview of Sterling File Gateway
- Introduction Users and Trading Partners

- Trading partner set up (AS2 Set up)
- Routing Channel Templates
- Mailbox Management
- Static Routes

💻 **Lab Exercises:**

- Configure SFG participant users and partner profiles
- Create Routing Channel Template (RCT) and deploy static routes
- Perform AS2 setup for partner communication
- Upload file to mailbox and verify routing completion

Day 7: SFG

- Implementation of File Gateway
- Dynamic Routes
- File Layers
- Extensibility
- Reports

💻 **Lab Exercises:**

- Configure Dynamic Routing Channels with variable parameters
- Implement File Layers for data enrichment
- Customize SFG metadata and generate transaction reports
- Troubleshoot failed transfers using SFG Reports console

Day 8: Mapping and Transformation – Part 1

- Mapping Concepts & Standards: XML, EDI, Flat Files
- Map Editor Usage
- Creating Message Structures & Fields

💻 **Lab Exercises:**

- Create inbound and outbound XML-to-Flat File maps
- Use Sterling Map Editor to define schemas and test transformations

- Validate map compilation and simulate data mapping
- Deploy map to runtime environment

Day 9: Mapping and Transformation – Part 2

- Functions, User Exits, Rules
- Code Lists, DDF, Compilation
- EDI over Internet (EDIINT, EDIINTParse, EDIINTPipeline)
- Deployment – MAPS from one env to other env(Export/Import)

💻 **Lab Exercises:**

- Create map with custom functions and code list validations
- Implement User Exit to handle custom logic in transformation
- Configure and test EDIINT pipeline end-to-end
- Export/Import map and verify runtime execution

Day 10: Logging, Troubleshooting & Queue Management

- Key Logs: noapp.log, processLog, system.log, wrapper.log etc..
- Troubleshooting BPs & Adapters
- Execution Queues, Queue Watcher
- Thread Tuning & Monitoring

💻 **Lab Exercises:**

- Identify and analyze process logs for failed BP
- Enable and review debug logs for adapter troubleshooting
- Manage execution queues and pause/resume processes
- Tune thread settings for optimal throughput

Day 11: System Monitoring, Admin & SQL

- Dashboard, Health Check, Purging Strategy
- Certificate & Perimeter Server Management
- Key Properties: sandbox.cfg, noapp.properties, customer_overrides.properties, memory, JVM tuning, JDBC properties
- Operational SQL: Monitoring Tables, Troubleshooting

- Patch Management, Upgrade Planning
- Backup & Rollback Techniques

💻 **Lab Exercises:**

- Perform system health check using Admin Console
- Configure certificates and perimeter servers
- Modify sandbox.cfg and apply runtime changes
- Execute SQL queries to analyze process states and purge data
- Perform system backup and simulate rollback procedure