

IBM WEBSHERE MESSAGE BROKER V8.0 SOLUTION DEVELOPMENT COURSE CONTENT

❖ **SECTION 1 - ARCHITECTURE AND CONNECTIVITY (17%):**

- A. Explain the architecture, components and supported operating environments of WebSphere Message Broker 8.0.
- B. Identify appropriate messaging patterns to be used for a given business scenario.
- C. Use supported transport protocols (e.g., MQ, SOAP, MQTT, SCA, HTTP).
- D. Demonstrate integration with Enterprise Information Systems (EIS) adapters and/or connectivity packs.
- E. Explain how to use WebSphere Service Registry and Repository (WSRR) to exploit governance principles.

❖ **SECTION 2 - MESSAGE MODEL DEVELOPMENT (17%):**

- A. Design message models based on different business requirements and industry message standards.
- B. Demonstrate understanding of different message domains.
- C. Create message definitions and/or import existing data models.
- D. Develop and test a Data Format Description Language (DFDL) model.

❖ **SECTION 3 - MESSAGE FLOW DEVELOPMENT (31%):**

- A. Implement message flow using built in nodes and compute nodes.
- B. Implement message broker transaction functionality.
- C. Implement appropriate error/exception handling techniques.
- D. Perform message transformation.
- E. Apply web service standards in WebSphere Message Broker V8.0.
- F. Use the Record & Replay feature.
- G. Use built-in and user defined patterns to create message flows.
- H. Differentiate methods of subflow usage.

❖ **SECTION 4 – PACKAGING AND DEPLOYMENT (12%):**

- A. Use Configurable Services.
- B. Demonstrate packaging and deployment of Projects, Applications and Libraries.
- C. Build and deploy BAR files using multiple methods.
- D. Use version and source control tools and technologies.

❖ **SECTION 5 - TROUBLESHOOTING AND PROBLEM RESOLUTION (12%):**

- A. Apply trace facilities.
- B. Use the logs produced by WebSphere Message Broker V8.0.
- C. Use the debugger and additional tools, and facilities to prevent and resolve runtime errors.

❖ **SECTION 6 - INSTALLATION, CONFIGURATION AND ADMINISTRATION (12%):**

- A. Install and configure WebSphere Message Broker V8.0.
- B. Plan and implement security.
- C. Perform basic administrative tasks (e.g., start and stop, deploy, enable/disable trace).
- D. Demonstrate knowledge of scalability for WebSphere Message Broker V8.0.
- E. Gather performance data and monitoring statistics for analysis.