

IBM WEBSHERE MQ V7.0, SYSTEM ADMINISTRATION COURSE CONTENT

❖ **SECTION 1 - PLANNING (11%):**

- A. Describe the features and benefits of IBM WebSphere MQ
- B. Understand migration considerations (e.g., 64 bit)
- C. Describe platform-specific functionalities of WebSphere MQ.
- D. Describe the necessary pre-requisites for implementing an IBM WebSphere MQ configuration
- E. Demonstrate appropriate logging options for a recovery strategy

❖ **SECTION 2 – INSTALLATION AND CONFIGURATION (16%):**

- A. Create a working queue manager
- B. Create the necessary IBM WebSphere MQ objects to support an application
- C. Demonstrate differences between persistent and non-persistent messages
- D. Apply features of IBM WebSphere MQ Explorer, MQSC scripting, PCF commands, ISPF panels (Interactive Systems Productivity Facility), and Command Language (CL)
- E. Create or modify IBM WebSphere MQ objects necessary for a triggered application
- F. Configure IBM WebSphere MQ objects for Web Services and HTTP
- G. Configure IBM WebSphere MQ objects for JMS

❖ **SECTION 3 - BASIC ADMINISTRATION (14%):**

- A. Operating queue managers and appropriate queue manager services
- B. Prepare procedures to recover messages and queues in the event of failure
- C. Analyze IBM WebSphere MQ performance for application throughput
- D. Monitor and change IBM WebSphere MQ objects using the administrative facilities
- E. Configure IBM WebSphere MQ Explorer for remote administration

❖ **SECTION 4 - DISTRIBUTED QUEUING AND CLUSTERED QUEUE MANAGEMENT (21%):**

- A. Analyze and select the appropriate IBM WebSphere MQ configuration. (e.g., hub and spoke, star, clustering)
- B. Create the appropriate IBM WebSphere MQ objects to satisfy a WebSphere MQ network design
- C. Install an IBM WebSphere MQ client and connect the client to a queue manager
- D. Use appropriate methods of operating channels
- E. Create and manage the objects required to enable clustering
- F. Implement IBM WebSphere MQ clustering workload management capabilities
- G. Describe different message channel compression options for IBM WebSphere MQ
- H. Predict the final destination of a message given a scenario containing alias or remote definitions

❖ **SECTION 5 - PUBLISH AND SUBSCRIBE (11%):**

- A. Create a basic broker topology
- B. Migrate publish/subscribe applications from IBM WebSphere MQ V6.0 to V7.0
- C. Select the appropriate publish/subscribe topology
- D. Manage topics and subscriptions
- E. Set up security for IBM WebSphere MQ publish/subscribe

❖ **SECTION 6 - PROBLEM DETERMINATION (16%):**

- A. Locate problem information (e.g., IBM WebSphere MQ error logs, operating system logs, FFST files)
- B. Investigate and determine the cause of a problem
- C. Produce an IBM WebSphere MQ trace
- D. Monitor messages (e.g., event monitoring, accounting/statistical gathering)
- E. Recover from a problem

❖ **SECTION 7 - SECURITY (11%):**

- A. Describe the security features provided in IBM WebSphere MQ
- B. Control access to IBM WebSphere MQ objects
- C. Configure IBM WebSphere MQ channels with SSL
- D. Demonstrate the need for and install various channel exits

