

Chapter 1: Getting Started

You will learn:

- Message queuing.
- Message channel agent.
- Shared queue, queue-sharing group, and intra-group queuing.
- Message queuing - features and benefits.
- WebSphere MQ objects.
- Designing messages.
- WebSphere MQ report generation.
- Application programming.
- Call Interface.

Chapter 2: Messages

You will learn:

- WebSphere MQ messages.
- Message types.
- Report message types.
- Format of message control information and message data.
- Application data conversion.
- Message priorities.
- Message persistence.
- Messages that fail to be delivered.
- Messages that are backed out.
- Reply-to queue and queue manager.
- Message context.

Chapter 3: WebSphere MQ Objects

You will learn:

- WebSphere MQ objects.
- Queue managers.
- Queue manager fixed and changeable attributes.
- Queues and queue types.
- Queue manager and local queue types.
- Queue attributes.
- Transmission queues.
- Handling program errors.
- System interruptions.
- Report messages for problem determination.

Chapter 4: MQ Explorer

You will learn:

- How to use MQ Explorer for creating a queue manager.
- How to use MQ Explorer for creating a local queue and storing messages in the queue.
- Clearing the queue.
- Executing MQSC commands.

Chapter 5: Message Queue Interface and Java

You will learn:

- Message Queue Interface.
- WebSphere MQ classes for Java.
- MQ libraries.
- Environmental variables.
- WebSphere MQ classes for Java interface.
- Java WebSphere MQ classes for Java class library.
- Writing WebSphere MQ base Java programs.
- Accessing queues and processes.
- Handling messages.
- Handling errors.
- Connection pooling.
- Compiling and testing WebSphere MQ base Java programs.

Chapter 6: Connecting a Queue Manager

You will learn:

- Connecting and disconnecting a queue manager.
- Disconnecting programs from a queue manager.
- Retrieving queue manager information.

Chapter 7: Putting a Message

You will learn:

- Putting messages on a queue.
- Getting a message - messageId and correlationId.
- Message groups and message group hierarchy.
- Group Message - Get Message Options.
- Passing identity context.

Chapter 8: Browsing Messages

You will learn:

- Getting messages from a queue.
- MQ browse and get.
- MQQueueManager class methods.
- MQMessage class.
- Browsing messages when message length is unknown.
- Getting a specific message.
- Type of index.
- Application data conversion.
- Conversion of EBCDIC newline characters.
- Browsing messages on a queue.
- Queues in priority sequence.

Chapter 9: Committing and Backing Out Units of Work

You will learn:

- Committing and backing out units of work.
- Syncpoint coordination and Syncpoint unit of work.
- Backing out changes using the MQBACK call.
- Transaction management and recoverable resource manager services.

Chapter 10: Triggers

You will learn:

- Queue manager and trigger events.
- Triggering.
- Prerequisites for triggering.
- Controlling trigger events.
- Format of trigger messages.