

# Course description: WebSphere MQ V7 System Administration II (Distributed Platforms) - Updated

Course code WM210GB

Delivery type <sup>Classroom</sup>  
(Hands-on labs)

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Duration 3.0 days

Course type Public or Private on-site

This course replaces WM305GB.

This course is designed to teach some of the advanced skills required by system programmers and administrators of IBM WebSphere MQ V7 on distributed platforms. It expands the basic skills developed in course *Technical Introduction to IBM WebSphere MQ (WM100)/(VM100)*, and the IBM WebSphere MQ V7 System Administration courses (WM201)/(VM201 for Windows, (WM202)/(VM202) for AIX, and WM203/VM203 for Solaris).

This course focuses on advanced features and facilities of WebSphere MQ V7 such as clustering and security, emphasizing the administration of workload balancing using clustering and using SSL to secure channels. Additional topics include channel exit programming, statistic and accounting facilities, advanced client features, and publish/subscribe administration with IBM WebSphere MQ for z/OS V7.

For information on other related WebSphere courses, visit the WebSphere Education Training Paths Web site: <http://www.ibm.com/software/websphere/education/paths/>

## WebSphere/SOA/XML Certification

### Train and Certify Promotion

Within six (6) months of completing this course or when the certification test expires, whichever comes first, you will be able to take the aligning certification test free of charge. The test is valued at \$200 USD in developed countries and \$100 in the emerging market countries. For complete promotion details, go to <http://www-03.ibm.com/certify/news/20080116.shtml>

For test retirement information, please refer to <http://www.ibm.com/certify/certs/index.shtml> From the Software column, select the desired brand/technology, and refer to the retirement information on top of the next Web page.

## Audience

This course is designed for technical professionals who require advanced administrator skills for WebSphere MQ on distributed platforms, or who provide support to others who perform such tasks. This course is based on WebSphere MQ V7 but is also appropriate for students who support prior versions of WebSphere MQ.

## Pre-requisites

Before taking this course, students should have:

- A working knowledge of WebSphere MQ V7 administration processes and procedures
- The skills necessary to perform basic WebSphere MQ V7 administration tasks in a distributed environment, which can be obtained through practical experience or by successfully completing one of the IBM WebSphere MQ V7 System Administration courses (WM201/VM201 for Windows, WM202/VM202 for AIX, or WM203/VM203 for Solaris)

## Objective

- Describe and use the advanced features of the Eclipse-based WebSphere MQ configuration tools (also known as MQ Explorer) to configure and administer queue managers on distributed platforms
- Explain the use of the available channel exits and how to activate these exits
- Design the use of message channel exits to enhance security or perform specialized translations of message data
- Explain the use of TLS/SSL for securing TCP/IP channels
- Set up appropriate security definitions and the WebSphere MQ objects to which they refer
- Describe and employ accepted security best practices
- Design and employ advanced workload management using clusters of queue managers
- Describe and employ advanced client connection facilities such as conversation sharing, read-ahead, and asynchronous put
- Explain the use of the statistics and accounting facilities provided with WebSphere MQ in order to optimize the use of system resources
- Describe and administer distributed publish/subscribe networks including publish/subscribe clustering and hierarchical networks

## Key topics

- Course introduction
- IBM WebSphere MQ Explorer advanced usage

- Exercise: IBM WebSphere MQ Explorer
- IBM WebSphere MQ channel exits and data conversion
- Exercise: Using channel exit programs
- Securing IBM WebSphere MQ channels using SSL
- Exercise: Securing IBM WebSphere MQ channels
- Security best practices
- Cluster workload balancing
- Exercise: Using clustering to manage workloads
- Advanced client concepts
- Exercise: Configuring advanced clients
- Accounting and statistics
- Exercise: Working with statistics
- Distributed publish/subscribe
- Exercise: Distributed publish/subscribe
- Course summary