

Training: IBM  
IBM MQ Advanced System Administration (Distributed)



## TRAINING GOALS:

This course is also available as self-paced virtual (e-learning) course *IBM MQ V9 Advanced System Administration (Distributed)* (ZM213G). This option does not require any travel.

This course expands the basic skill sets that are developed in courses WM103/ZM103, *Technical Introduction to IBM MQ*, and WM153/ZM153, *IBM MQ V9 System Administration (using Windows for labs)* or WM154, *IBM MQ V9 System Administration (using Linux for labs)*.

The course focuses on advanced features of IBM MQ, such as implementing workload management by using a queue manager cluster, and authenticating connections, channels, and users. It also covers securing channels with Transport Layer Security (TLS), advanced client connection features, event and message monitoring, and publish/subscribe administration.

In addition to the instructor-led lectures, you participate in hands-on lab exercises that reinforce lecture content. The lab exercises give you practical experience with tasks such as implementing security, configuring workload management for a queue manager cluster, and advanced troubleshooting techniques.

Completing this course can also help you prepare for the appropriate IBM MQ Administrator certifications.

For information about other related courses, see the IBM Training website:

**ibm.com/training**

- Use conversation sharing, read-ahead, and asynchronous put to improve the performance of MQI client connections
- Use Transport Layer Security (TLS) to secure TCP/IP channels
- Authenticate IBM MQ channels, connections, and users
- Manage the workload in an IBM MQ queue manager cluster
- Implement IBM MQ high availability
- Monitor application activity, events, and messages
- Use the IBM MQ dead-letter queue message handler to manage a dead-letter queue
- Administer distributed publish/subscribe networks
- Use the IBM MQ Console to administer IBM MQ objects and resource usage
- Administer Java Message Service (JMS) in MQ

This advanced skills course is designed for technical professionals who require advanced administrator skills for IBM MQ on distributed operating systems, or who provide support to others who administer IBM MQ.

## CONSPECT:

Course introduction  
Managing clients and client connections  
Securing IBM MQ channels with TLS  
Exercise: Securing channels with TLS  
Authenticating channels and connections  
Exercise: Implementing connection authentication  
Implementing workload management in an IBM MQ cluster  
Exercise: Implementing workload management in a cluster  
More troubleshooting tools and techniques  
Exercise: Tracing message routes  
Exercise: Handling messages on the dead-letter queue  
High availability  
Introduction to distributed publish/subscribe  
Exercise: Configuring distributed publish/subscribe  
Supporting JMS with IBM MQ  
Introduction to the IBM MQ Console  
Exercise: Getting started with the IBM MQ Console  
Course summary

## REQUIREMENTS:

Before taking this course, you should possess the skills that are required to complete basic IBM MQ system administration tasks in a distributed environment. You can obtain these skills through practical experience or by successfully completing one of the IBM MQ V9 system administration courses for distributed operating systems:

- *IBM MQ V9 System Administration (using Windows for labs)* (WM153G)
- *IBM MQ V9 System Administration (using Windows for labs)* (ZM153G)
- *IBM MQ V9 System Administration (using Linux for labs)* (WM154G)

## Difficulty level

