

# IBM WebSphere MQ V7: Designing and Architecting Clustering Solutions

WM251G



**Delivery Type:** Instructor led- Online

**Duration:** 4 days

## Overview

In this four-day, instructor-led course, you will learn the intermediate skills that they need to administer an IBM WebSphere MQ clustered environment. This course is essential for anyone who is responsible for the design and administration of WebSphere MQ solutions that include WebSphere MQ clusters.

The course uses a combination of lectures and hands-on labs, starting with an overview of WebSphere MQ clustering and a lab in which you will create and test a simple queue manager cluster. The course continues by covering how to design and set up a sophisticated cluster, manage clusters, and perform full repository reassignment. You will also learn how to remove queue manager clusters and to use diagnostic tools to determine and resolve problems within a WebSphere MQ cluster.

The lab environment for this course uses the Windows XP Professional SP3 platform.

## Pre-Requisites

You should have practical experience with IBM WebSphere MQ, and should complete any one of the following courses (or have equivalent experience):

- ✓ Technical Introduction to WebSphere MQ (WM101GB) (VM101GB) or (ZM101GB)
- ✓ IBM WebSphere MQ V7.1 System Administration (WM204GB) (VM204GB) (WM205GB) (VM205GB) (VM206GB) or (WM206GB)

## Objectives

- ✓ Explain basic WebSphere MQ cluster concepts
- ✓ Set up a simple cluster
- ✓ Use administrative commands to manage a WebSphere MQ cluster
- ✓ Describe problems that might be encountered with WebSphere MQ clusters, and the tools and techniques that are used for isolating these problems
- ✓ Explain workload management concepts

- ✓ Define marooned messages and describe alternatives for handling them
- ✓ Describe security, recovery, and failover issues that must be considered when designing a cluster, performing disaster planning, and testing
- ✓ Implement a complex WebSphere MQ cluster that includes more than three queue managers
- ✓ List the design considerations for a WebSphere MQ clustering solution, including the use of multiple overlapping clusters and techniques for dividing large organizations of systems
- ✓ Define the process of incorporating non-cluster WebSphere MQ queue managers into a cluster, including security issues that must be considered when using a gateway approach
- ✓ Describe cluster workload exits

### **Target Audience**

This intermediate course is designed for system designers and administrators who work with WebSphere MQ solutions that include WebSphere MQ clusters.