



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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# Designing, Implementing, and Managing IBM MQ V9 Clusters

**CODE:**            **DURÉE:**            **PRIX H.T.:**

WM253G            24 Hours (3 Jours)            €2,390.00

## Description

This course prepares you to plan, design, configure, and administer IBM MQ clusters.

After a review of IBM MQ, the course explains the similarities and differences between administration of a cluster and administration of a distributed message IBM MQ environment. You learn cluster specific commands and procedures, and explore the role of a cluster in a highly available IBM MQ infrastructure. You learn how to do a detailed verification of a new cluster configuration, review and identify all resulting components, and troubleshoot problems.

You also learn about cluster administration, workload balancing, security, and use of publish/subscribe clusters. You learn how to recognize when a problem is due to connection authentication, channel authentication, or object authorizations. You also learn about design options such as overlapping clusters and use of clusters with z/OS queue sharing groups. Many of the considerations in this course are based on actual engagement experiences.

For information about other related courses, see the IBM Training website: [ibm.com/training](http://ibm.com/training)

## Objectifs

- Describe the basic IBM MQ components
- Identify which IBM MQ objects are used to impact routing in a cluster environment
- Identify who in your organization can impact the health of a cluster and the need for adequate communication
- Describe the correct role of a cluster in a highly available IBM MQ infrastructure
- Describe the differences and similarities between administering clustered and non-clustered IBM MQ environments
- Describe how to configure, verify, and troubleshoot an IBM MQ cluster
- Identify the various channels that are present in a cluster environment and how each is created
- Describe how to use separate transmission queues in a clustered queue manager
- Explain how to remove a queue manager from a cluster on a permanent or temporary basis
- Explain IBM MQ connection authentication
- Explain IBM MQ channel authentication
- Describe IBM MQ object authorizations
- Explain how to troubleshoot security challenges in a cluster
- List ways to influence workload balancing in a cluster
- Describe the history and basic components of IBM MQ publish/subscribe
- Explain the considerations and details of implementing publish/subscribe in an IBM MQ clustered environment
- Describe cluster design architectural considerations
- Summarize the benefits of design and configuration simplicity in a cluster implementation
- Explain how to configure overlapping clusters

## Audience

This course is designed for IBM MQ administrators, architects, application developers, and other professionals who need to understand the design considerations, architectural role, and implementation of IBM MQ clusters

## Prérequis

Before taking this course, you should have experience with IBM MQ or complete one of the following courses:

- *IBM MQ V9 System Administration (using Windows for labs)* (WM153G)
- *IBM MQ V9 System Administration (using Linux for labs)* (WM154G)
- *IBM MQ V8 System Administration for z/OS* (WM302G)

You should also have working knowledge of the Windows operating system to run the lab exercises.

## Programme

Course introduction  
IBM MQ baseline  
Exercise: Configuring and reviewing base IBM MQ resources  
Before you start  
Understanding and implementing an IBM MQ cluster  
Exercise: Implementing and verifying a cluster, cluster queues, and a cluster gateway  
Cluster administration tasks and commands  
Exercise: Working with cluster administration tasks  
IBM MQ security and clusters  
Exercise: Working with IBM MQ security  
Influencing workload balancing behavior  
Exercise: Working with workload balancing options  
Publish/subscribe and clusters  
Exercise: Configuring a publish/subscribe cluster  
Cluster design considerations  
Exercise: Configuring an overlapping cluster  
Course summary

## Dates de session

Date	Lieu	Time Zone	Langue	Type	Garanti	PRIX H.T.
01 Jul 2024	Virtual Classroom	CEDT	English	Instructor Led Online		€2,390.00
09 Dec 2024	Virtual Classroom	CET	English	Instructor Led Online		€2,390.00

## Informations Complémentaires

[Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.](#)