



## WM253G Designing, Implementing, and Managing IBM MQ V9 Clusters

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

### Listenpreis

2.400,00 € exkl. MwSt

2.856,00 € inkl. MwSt

### Dauer

3 Tage

### Leistungen Präsenz

- Schulung im Trainingscenter
- Verpflegung
- Teilnahmebestätigung / Zertifikat

### Leistungen bei VCL Training

- Technischer Support
- Online Zugang
- Teilnahmebestätigung / Zertifikat

### Ihre Ansprechpartnerin



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## Inhalte

- **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
- **Objective:**
  - 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

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### Ziele

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.

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### Zielgruppe

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

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### Voraussetzungen

- **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.**