



MQ Training

MQGem Software supplies online training modules about IBM® MQ.

Format

The modules have a format where you read an introduction about the subject at hand, and then do some worked exercises on your own machine to try out what you have learned. You can choose to use command line MQSC commands or GUI tools (such as MQ Explorer or MO71) to interact with your queue manager, depending on your preference.

Full instructions are provided for MQSC, MQ Explorer, MO71 and ISPF Panels (when the module applies to z/OS®); and for UNIX®, Windows® and z/OS platforms, so you can learn in the same environment where you will use the skills going forward. You choose the path through the module, by selecting the tool or platform you want to use, no paging forward through instructions that are not relevant to you. Modules are short lessons, designed to take between 2 and 4 hours to complete.

Each module finishes with a short quiz so you can test yourself to see how much you remember of what you were taught. While a score is given, credit is given for completing the module regardless of the quiz score.

Pricing

With the exception of module MQG-101-00 which is FREE, modules are priced at £40 per person per module (unless stated otherwise). You can either purchase an individual module on the learning platform website through PayPal just before you decide to do it, or you can purchase several modules (and for several individuals) in a block by getting in touch at learn@mqgem.com. We can invoice you for a block and, once paid, provide logons to the learning platform for each individual to run through the module(s).

Modules

The following modules are currently available:

- **MQG-101-00 - First steps with MQ**

In this module you will be introduced to some of the basic constructs in IBM MQ; how to use the commands available; the samples provided; and how to get information about any errors emitted by the product. It is offered free to ensure that you have this basic pre-requisite level of skills to do the later modules, and to allow you to try out an MQGem training module and see what the format is like.

Platform Coverage: This module provides instructions for IBM MQ on UNIX, Windows and z/OS.

Module Duration: It is expected that this module will take you 1 - 1½ hours.

- **MQG-101-05 - Remote Messaging**

In this module you will be introduced to the basic constructs for remote messaging, that is, sending messages from one queue manager to another. After setting up a channel and learning how to diagnose channel errors, you will also cover automatically starting and ending channels; and learn what happens to undelivered messages.

Platform Coverage: This module provides instructions for IBM MQ on UNIX, Windows and z/OS.

Module Duration: It is expected that this module will take you 2-4 hours.

- **MQG-101-06 - Configuring Clients for Connectivity**

In this module you will be introduced to a method of running an MQ application that allows it to run on a different machine from where the queue manager resides. This mechanism is called a Client Connection. You will learn what needs to be configured on the queue manager in order for client connections to run, and how to use several client connection techniques, including MQSERVER environment variable and Client Channel Definition Table (CCDT). Lastly we look briefly at direct use of connection information from an application, although this is not a programming course, so no coding experience is required in this module.

Platform Coverage: This module provides instructions for IBM MQ on UNIX, Windows and z/OS (although z/OS cannot run as a client, so another platform will be required as well as z/OS for this module).

Module Duration: It is expected that this module will take you 2-4 hours.

- **MQG-101-10 - Starting out with Queue Manager Clustering**

In this module you will be introduced to the basic constructs for queue manager clustering, allowing auto-discovery of queues within the cluster, and automatic connectivity between queue managers. You will set up a cluster of queue managers, learn how queues are advertised round the cluster, and try out workload balancing of messages.

Platform Coverage: This module provides instructions for IBM MQ on UNIX, Windows and z/OS.

Module Duration: It is expected that this module will take you 2-4 hours.

- **MQG-101-30 - Getting going with Authorization**

In this module you will be introduced to authorisation features in IBM MQ and how to use those to allow an application to access MQ resources (e.g. put to a queue), or a user to issue certain MQ commands (e.g. change a queue definition). Take module MQG-101-32 "Using MQ Authentication" to learn about that side of securing your queue manager.

Platform Coverage: This module provides instructions for IBM MQ on UNIX and Windows. It does not cover z/OS.

Module Duration: It is expected that this module will take you 2½ - 5 hours.

- **MQG-101-31 - Securing channels using Digital Certificates (SSL/TLS)**

In this module you will be introduced to creating Certificate Authority (CA) signed digital certificates and configuring the queue manager and MQ Channels to make use of those certificates to secure the channels. This module will cover channels between two queue managers, and Client channels (both 'C' and Java) using these digital certificates.

Platform Coverage: This module provides instructions for IBM MQ on UNIX and Windows. It does not yet cover z/OS.

Module Duration: It is expected that this module will take you 2-4 hours.

- **MQG-101-32 - Using MQ Authentication**

In this module you will be introduced to authentication features in IBM MQ and how to use those and assign a user ID to an application connection, or an administrative user, in order for your authorization commands to be tied to that user ID. Take module MQG-101-30 "Getting going with Authorization" to learn about that side of securing your queue manager.

Platform Coverage: This module provides instructions for IBM MQ on UNIX and Windows. z/OS instructions are in progress.

Module Duration: It is expected that this module will take you 2½ - 5 hours.

- **MQG-101-60 z/OS Queue Manager - Getting Started**

While many of the features of the IBM MQ product are the same across all platforms, for example, the MQSC commands or the MQ API programming verbs, there are some marked differences when getting to know your queue manager between the distributed platforms and the z/OS platforms. This module aims to introduce you to the z/OS queue manager and show you some of the helpful hints and tips that will enable you to do a number of the other modules without feeling that the z/OS queue manager is too different and hard to learn.

Platform Coverage: This module provides instructions for IBM MQ on z/OS.

Module Duration: It is expected that this module will take you 1-2 hours.

The following are in-progress to be available soon:

- **MQG-101-71 – Application Triggering**

In this module you will be introduced to the basic concepts for automatically starting IBM MQ applications when messages turn up on a queue needing to be processed.

Platform Coverage: This module provides instructions for IBM MQ on UNIX and Windows.

There are a number more planned, and if you have suggestions for other subjects, please get in touch.



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