

WMQ05 *IBM MQ For Application Developers*

Course description This course is intended to provide application developers with the necessary skills required to design, develop and support applications which interface with *IBM MQ* on any supported platform. The course contains detailed instructions on how to program the Message Queuing Interface (MQI).

The course contains a series of progressive and detailed hands on workshops. For practical reasons, these workshops can be delivered on z/OS and Windows platforms, and cover the COBOL, PL/1 Assembler and C programming languages.

Who Should Attend Application designers and developers who intend building and / or supporting applications using *IBM MQ*.

Pre-Requisites A familiarity with *IBM MQ*, such a that gained by attending WMQ01 or a similar background.

Duration 3 Days.

IBM MQ Review

Operating platforms
Pgm-to-pgm communication
The synchronous model
The asynchronous model
Distributed systems
The MQI
Assured delivery
Once only delivery
Time independence
Parallel processing
Program independence
Network "*Decoupling*"
Queue managers
Queue types
Messages

The MQI Housekeeping Calls

MQCONN
MQCONNX
MQDISC
MQOPEN
MQCLOSE
The MQOD

The MQI Major Calls

MQGET
MQPUT
MQPUT1
The MQMD
MQ Get Message Options
MQ Put Message Options
Message persistence
Message priority
Message context
Browsing messages
Queue Alias's
Queue Models
Dynamic queues

Putting It All Together

Client / Server Models
The Message ID
The Correlation Id
Waiting for replies
Clients/Servers
Message context
Triggering

Remote Queuing

Why distributed ?
Different platforms
Network considerations
System "*Hopping*"
Channels
Remote queues
Transmission queues
Deal Letter Queues
Clustering

Remote queues
The MCA's
Transmission queues
Channels
Queue name resolution
Replies and Reports
Multi-system hopping
The Dead Letter Queue

The MQI Minor Calls

MQCMIT
MQBACK
MQBEGIN
Syncpointing
Integrity issues
MQINQ
MQSET