# *WMQ20 IBM MQ For z/OS System Administration*

***Course description*** This course intended for personnel who will be responsible for installing, operating, administering and supporting *IBM MQ* systems and applications relating to those systems on z/OS platforms.

***Who Should Attend*** Technical personnel such as systems programmers, operations analysts, system administrators and anyone else who may be responsible for providing day-to-day support of *IBM MQ* For z/OS.

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

For students who have not completed WMQ01, the first session can be extended. Ask for details.

***Duration*** 4 Days

**IBM MQ Review**

Pgm-to-pgm comms
Why WMQ
Synchronous model
Asynchronous model
Time independence
Pgm independence
Parallel processing
Distributed systems
The MQI
Assured msg delivery
Network *"decoupling"*
Queue managers
Queues
Messages
Installation & Config
Integrating MQ-z/OS
Page datasets
Defining the Log(s)
The BSDS(s)
Storage Classes
Verifying installation
Starting the QMGR
The ZPARM Module
Stopping the QMGR

**Single System Administration**

Queue types
Queue Locals
Queue Alias's
Queue Models
Dynamic queues
Message types
Message structure
Message persistence
Msg/Correl id's
Message expiry
Message delivery seq.
Message priority
Data conversion

**The MQI & Triggering**

MQCONN
MQCONNX
MQDISC
MQOPEN
MQCLOSE
MQPUT
MQGET
MQPUT1
MQBEGIN
MQBACK
MQCMIT
MQINQ
MQSET
Triggering overview
Trigger parameters
Trigger events
The initiation queue
The trigger message
Trigger monitors

**Intercommunication**

DQM components
Queue Remotes
Transmission queues
Dead letter queue
Channels / MCA types
Assured msg delivery
Msg sequence no's
CHINIT addr space
Start channel
Stop Channel
WQM listeners
Multi hopping
Queue Mgr aliases
Data conversion
Channel compression
Clusters
Cluster objects
Cluster channels
Repositories
Workload balancing
Queue replication

**Integrity, Restart & Recovery**

Message persistence
The WMQ Log
Log archives
The BSDS
The PARM module
QMGR restart
Backup & recovery
Pageset recovery
Media Failure
Conditional restart
System checkpoints

**Security**

RACF
Preparing for security
Local security
Enabling / disabling
WMQ RACF classes
WMQ RACF profiles
Switch profiles
Distributed security
Secure Sockets Layer

**Queue Sharing Groups**

Cluster limitations
The Sysplex
The coupling facility
Setting up a QSG
CF list structures
QSG advantages
Shared channels

**Troubleshooting**

Event generation
The DLQ
DLQ handler

**CICS & IMS Support**

CICS/IMS Adapters
CICS/IMS Bridges

**IBM MQ Clients**

Why clients
MQI channels
System variables
Client Channel Table