WMQ45 IBM MQ System Administration Fast Track – Distributed

Course description This course provides an ***intensive*** IBM MQ *fast-track*, intended for personnel who will be responsible for installing, operating, administering and supporting IBM MQ systems and applications relating to those systems for ***non*** z/OS platforms (Windows, Unix etc.). The course has major hands on content.

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

Pre-Requisites A familiarity with IBM MQ, such a that gained by attending WMQ01 or a similar is advised but is not essential.

Duration 5 Days

IBM MQ Review

Pgm-to-pgm comms
Synchronous model
Asynchronous model
Distributed systems
The MQI
Assured msg delivery
Time independence
Parallel processing
Program independence
Network decoupling
Queue managers
Queues
Messages
Operating platforms
Supported languages

Installation & Configuration

The install process
Create / Delete QMGR
Start / Stop QMGR
IBM MQ Explorer
IBM MQ Services
IBM MQ commands
Sample programs

Single System Administration

Queue types
Local queues
Alias queues
Model queues
Dynamic queues

Message types
Message structure
Message persistence
Message/Correlation id's
Message priority
Message delivery seq.

The MQI & Triggering

MQCONN MQCONNX
MQDISC
MQOPEN / MQCLOSE
MQPUT
MQGET
MQGET1
MQBEGIN
MQBACK / MQCMIT
MQINQ / MQSET
Triggering overview
Trigger parameters
Trigger events
The initiation queue
The trigger message
Trigger monitors

Intercommunication

DQM components
Queues Remotes
Transmission queues
Queue name resolution
Dead letter queue
Channels / types
Channel parameters
Assured message delivery
Start / Stop channels
Synchronising channels
Channel initiator
Listeners

Multi hopping
Queue manager aliases
Reply-to-aliases
Multiple pathways
Data conversion

Clusters

Cluster objects
Cluster channels
Repositories
Workload balancing
Queue replication
Dynamic channels
Resetting the cluster
Resume / Suspend

Integrity, Restart & Recovery

Message persistence
System restart
Log types
Log files
Dumping the log
Problem determination
Media recovery
Syncpoint control
Transaction control

Security

Access control
The OAM
Application oriented
Message contexts
Security commands
Channel security
Security exits
Secure Sockets Layer

Effective Channel Management

Keeping channels going
Monitoring channels
Channel states
Resynch'ing channels

Performance & Tuning

Types of application
Message size
Message persistence
Logging
Dynamic queues
Batch sizes
Channel parameters
Triggering

Troubleshooting

QMGR events
Channel events
Performance events
Dead letter handler
Troubleshooting channels

IBM MQ Clients

Why clients
MQI channels
System variables