

Web Age Solutions MQSeries Application Programming

➔ Set-up Requirements for Z/OS and CICS ←

Instructions for NT/W2000/XP workstations:

The workstation for each student and the instructor should have the following set-up:

1. 3270 emulation software with access to z/OS (MVS TSO and CICS)
 - should have a File Transfer capability
2. User IDs with access to the 3270 emulator
3. Internet access

The instructor machine should be connected to the overhead projection equipment and should have a recent version of PDF available for the presentation.

Instructions for z/OS - access

1. All students will require TSO + CICS + MQSeries access to perform their labs
2. MQSeries access should allow them to:
 - PUT/GET/INQ/SET to dedicated test queues
 - Browse queue definitions, CLEAR test queues

Instructions for z/OS - Queue Manager set-up

1. Set up common test queues:
 - LAB.MODELT – Model queue for temporary dynamic queues
 - CICS1.INIT – init queue for CICS trigger (CICS environment only)
2. Set up a set of test queues for nn students (nn=00,01, 02, 03,)
 - Instructor will use nn=00
3. Each student will require the following test queues:
 - LABnn.REQ - test request queue
 - MaxMsgLength=100; MaxDepth=100;
 - LABnn.REQG - test request queue indexed by GroupID
 - MaxMsgLength=100; MaxDepth=100; IndxType=GroupID
 - LABnn.REP - test reply queue
 - LABnn.DATA – test data queue
 - LABnn.TRIG – triggered queue
 - Trigger on First; Process=LAB.MGnn ; TrigData=LABTSQnn
 - INITQ=CICS1.INIT
4. Each student will require the following test process definition:
 - LAB.MGnn – Applcid=MGnn (CICS transaction MGnn)
5. Students should have access to admin interface to browse their definitions and CLEAR test queues

Instructions for z/OS - CICS set-up

1. Set-up a test CICS region providing unrestricted access to test transactions during the course
2. The CICS region requires a connection to the test queue manager
3. The trigger monitor transaction CKTI is pointing to the CICS1.INIT queue
4. Test environment requires the following transaction/program definitions:
 - MQSeries Sample applications (MVPT, MVGT, ...) as per :
MQSeries Application Programming Guide (Sample CICS Applications)
 - MQSeries Test transactions/programs for nn students (nn=00,01, 02, 03,):
 - Instructor will use nn=00
 - Transactions:
 - MPnn – Put transactions
 - MGnn – Get transactions
 - MRnn – Request transactions

- MYnn – Reply transactions
- MInn – Inquire transactions
- MSnn – Set transactions
- Programs:
 - MQPUTnn – Put programs
 - MQGETnn – Get programs
 - MQREQnn – Request programs
 - MQREPnn – Reply programs
 - MQINQnn – Inquire programs
 - MQSETnn – Set programs
 - MQMAPInn – Input maps
 - MQMAPOnn – Output maps

Instructions for z/OS - TSO set-up

1. For each student Set-up the PDF environment to:
 - Edit and compile COBOL batch and CICS programs
 - Read Access to the WMQ copy and sample source libraries (SYSx..SCSQCOBC/SCSQCOBS,...)
 - Access to the test queue manager batch processing (PUT/GET access)
 - Access to the MQ Sample ISPF Queue Browser (Message Handler) program
 - Access to the test queue manager admin function (browse queue definitions, clear queues)
 - Access to SDSF (or other spool facility) to view JOB output

Documentation

All students will require access to MQSeries online / hard copy documentation:

- MQSeries Documentation CD (IBM Book Manager) or
- NT/Win2000 MQSeries Info Centre (part of MQSeries on NT) or
- z/OS Book Manager or
- Reliable Internet access to IBM documentation