

## **MQ Series Course Content:35-40hours**

### Course Outline

#### **Review of MQSeries**

- What is MQSeries?
- Types of communication
- What's in a message?
- What is a queue?
- What is a queue manager?
- MQSeries objects
- Triggering
- MQSeries products
- The MQSeries platforms
- Supported programming languages

#### **Basic Administration**

- Installation notes
- Objects to configure
- Object naming convention
- Administration interface
- Queue manager administration
- The MQSC command
- Testing queues

#### **Message Queue Interface**

- MQI call overview
- MQI call details
- Persistence and priority
- Correlation ID
- Report generation
- Message expiry
- Message segmentation
- Distribution lists

#### **Triggering**

- Basic mechanism
- Conditions for triggering
- Steps to setup triggering
- Creating the initiation queue
- Creating the process object
- Create the main queue
- Create a trigger monitor
- Common causes of failure

### **Queue Manager Architecture**

- Physical components
- Applications components
- Windows directory structure
- Queue manager directories
- Configuration storage
- Installable services

### **Problem Determination**

- Error logs
- Tracing
- Dead letter queue
- Client/server logging
- Queue manager connections
- Application errors
- Client applications
- Server connected application
- Rules table
- Common problem resolution

### **Distributed Queue Management**

- Basic concepts
- Channel configuration
- Receiver side
- Clusters
- Steps to setup a cluster
- Steps for load balancing
- Load balancing mechanism

### **Security**

- Security mechanism
- Principals and groups
- Securing administration
- Securing MQSeries objects

- Using setmqaut
- Viewing security settings

### **Transaction and Recovery Support**

- Needs for transactions
- Message persistence
- Logging system
- Physical object recovery
- Media recovery
- Resource manager
- Syncpoint coordinator
- External syncpoint co-ordinator

### **The MQI in the Network**

- Conversion of data
- Message descriptor
- Requesting data conversion
- The command server
- Dead letter queue

### **MQSeries Clients**

- How MQ client/server works
- MQI client limitations
- Installing MQSeries client
- Defining the MQI channel
- Defining connections
- Channel instances
- Auto definition of channels
- RUNMQFMT

### **MQSeries for Windows**

- Channel group
- Connections
- Installation
- Administrator on version 2.0
- Administrator on version 2.1
- Supported and unsupported
- Initialization files
- Definition files