# ProTech Professional Technical Services, Inc.

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## IBM MQ Introduction

## Course Summary

### Description

This course is designed to provide the skills necessary to determine the feasibility for using Message Queuing in implementation of application systems. A complete look at the features and facilities provided by the various MQI products will be provided. Upon completion of this introductory course, the student should be able to understand how MQ might impact application systems within their enterprise. General design of program-to-program facilities will be compared to MQ to provide a basis for choice between the methods.

### Objectives

At the end of this course, students will be able to:

- Provide the knowledge base for implementation of message queuing application systems or to provide general support of those systems.
- Describe the key related features and facilities available within IBM MQ and the MQI.
- Describe, explain and understand the various queue and message styles used in message queuing.
- Gain a basic knowledge of the recovery, and system management facilities provided.

### Topics

- Introduction
- Message Queuing Features and Facilities
- Related Topics

### Audience

This course is intended for information systems personnel at all levels, including both applications and systems development personnel and their management.

### Prerequisites

It is highly recommended that students have the following knowledge and skills: Introduction to Client/Server course (or equivalent knowledge) and have at least a general knowledge of operating system environments in use.

### Duration

One Day

**Course Outline**

Course Outline

I. *Introduction*
   A. IBM MQ Definition and Concept
   B. IBM MQ Components
      1. Queue Manages and Clients
      2. Queues
      3. Channels
      4. System Default Queues
      5. Process Definitions and Trigger Monitor
   C. IBM MQ Parallel Execution
   D. Load Balancing
   E. IBM MQ Clusters
   F. Getting Data Nearer to the Program
   G. No Dedicated Connection
   H. IBM MQ and the Network
      1. Open Network Blue-Print
      2. Conversation Model
      3. Call Model
      4. Messaging Model
   I. Messaging Models
      1. One-To-One Messaging
      2. One-To-Many Messaging
      3. Many-To-One Messaging
      4. Many-To-Many Messaging

II. *Message Queuing Features and Facilities*
   A. Function Queues
      1. Local Queue
      2. Remote
      3. Queue
      4. Simple Queue Topology
      5. Transmission Queue
      6. Alias Queue
      7. Model Queue
      8. Message Queues
      9. Reply-To Queue
      10. Initiation Queue
      11. Command Queue
      12. Event Queue
      13. Dead-Letter Queue
   B. Message Types
   C. Report Message Processing
   D. Direct MQI Calls
   E. High-Level AMI Calls
   F. Recovery Basics
   G. Security Basics

III. *Related Topics*
   A. Message Groups and Segmentation
   B. Public and Subscribe
   C. IBM MQ Performance Notes
   D. Installable Services
   E. Message and Channel Exits
   F. IBM MQ Integrator
   G. IBM MQ Workflow
   H. Implementation Approach