

## IMS Fundamentals

**Duration: 3 Days**    **Course Code: CM01G**    **Delivery Method: Virtual Learning**

### Overview:

Learn about the basic Information Management System (IMS) facilities: the IMS Database System and the IMS Transaction Manager (IMS/TM). Explore how these facilities work together and how application programs interact with them in today's complex enterprise systems. This course has 30 hours of instruction.

### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

This is a basic course for users who want a basic understanding of the IMS Database and IMS/TM products. Data processing individuals who work with or manage an IMS system (Database (DB), Database/Data Communications (DB/DC), or Database Control Subsystem (DBCTL)).

### Objectives:

- Understand the components and benefits of an IMS Database system
- Describe the processing of a database record in hierarchic sequence
- Identify the different IMS database organization types
- Understand the differences between Database Description (DBD) and Program Specification Block (PSB) control blocks
- Contrast the requirements and effects of sequential versus direct access of database segments
- Explain the reasons for the use of secondary indexes and logical relationships
- Contrast full-function and Fast Path database organizations
- List the basic IMS Data Communications functions of the IMS Transaction Manager (IMS/TM)
- Identify the roles of messages, queues, and logical terminal names
- Explain the different scheduling characteristics of the IMS/TM regions types: Message Processing, Batch Message Processing, and Interactive Fast Path
- Describe the role of commit points in recovery and restart
- Identify the functions of dynamic and batch backout, the system log and the benefits of periodically backing up a database
- Explain the capabilities of a conversational program and its implications on processing and performance
- Describe the function of Database Recovery Control (DBRC), Integrated Resource Lock Manager (IRLM) for data sharing and distributed processing
- Understand how DB2 data can be accessed by IMS TM, IMS DB databases can be accessed through the DBCTL interface by CICS, and how IMS DB data and IMS TM transactions can be accessed from the internet

### Prerequisites:

You should have basic understanding of database management or transaction management along with working knowledge of z/OS concepts and tools and Job Control Language (JCL).

## Content:

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|----------------------------------------|--------------------------------------|--------------------------------------------|
| ■ IMS Database Fundamentals            | ■ IMS Transaction Manager            | ■ Enhancing IMS Availability               |
| ■ Accessing IMS Databases - DL/I Calls | ■ IMS Transaction Message processing | ■ Business Integration of IMS Assets - SOA |
| ■ IMS Hierarchic Access Methods        | ■ IMS Fast path                      |                                            |
| ■ Additional IMS Database Functions    | ■ Connecting IMS to Other Systems    |                                            |
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## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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