

IMS Fundamentals

Duration: 3 Days **Course Code: CM01G**

Overview:

This course introduces the basic facilities of IMS Database and Data Communications, how these facilities work together, and how application programs interact with them.

The course presents the IMS Database System, the IMS Transaction Manager, and their use in today's modern Enterprise Systems.

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.

Target Audience:

This course is designed for users who want a basic understanding of the IMS database and IMS/TM products including Information Technology professionals 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:

Participants should have a basic understanding of database management or transaction management along with working knowledge of z/OS concepts and tools and Job Control Language (JCL). These skills can be obtained from on-the-job experience.

Testing and Certification

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Follow-on-Courses:

- CM17G IMS Database Application Programming
 - CM18G IMS Transaction Manager Application Programming
 - CM20G IMS Database Recovery Control (DBRC)
 - CM22G IMS Physical Organization of Databases Workshop
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Content:

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| ■ Unit 1: IMS Database Fundamentals | ■ Unit 5: IMS Online System Functions and the IMS/TM Transaction Manager | ■ Unit 8: Connecting IMS to Other Subsystems – Part 2 |
| ■ Unit 2: Accessing IMS Databases – DL/I calls | ■ Unit 6: IMS Transaction Message Processing | ■ Unit 9: Enhancing IMS Availability – Part 1 |
| ■ Unit 3: IMS Hierarchic Access Methods | ■ Unit 7: IMS Fast Path | ■ Unit 9: Enhancing IMS Availability – Part 2 |
| ■ Unit 4: Additional IMS Database Functions | ■ Unit 8: Connecting IMS to Other Subsystems – Part 1 | ■ Unit 10: Business Integration of IMS Assets - SO |
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Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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