# IMS Database Application Programming

**Duration: 3 Days** **Course Code: CM17G** **Delivery Method: Virtual Learning**

## Overview:

Learn how to write application programs that use Data Language One (DL/I) to process Information Management System (IMS) databases.

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 an intermediate course for individuals who write programs in Common Business Oriented Language (COBOL), or Programming Language One (PL/I), or Assembler language using DL/I to navigate through an process IMS databases.

## Objectives:

- Describe the basic differences between files and IMS databases as they relate to application program coding and logic
- Describe the terms and processing characteristics of IMS hierarchic data structures
- Construct DL/I calls for either COBOL or PL/I language programs
- Write, test and debug a batch application program that uses the DL/I call functions
- Use the IMS Test Program to prototype application program calls, and to perform ad-hoc read and update access to an IMS database
- Describe the applications and uses of other DL/I features
- Program for recovery and restart using DL/I calls to establish synchronization points
- Describe the functions provided by High Availability Large Database (HALDB), and any program differences when accessing a Full Function database or a HALDB

## Prerequisites:

You should complete:

- IMS Fundamentals (CM010) or IMS Fundamentals - Web - ILO(CMW01)

and a COBOL or PL/I language course, or be able to:

- List the basic components of the IMS database system
- Construct a non-DL/I application program in COBOL or PL/I

## Content:

- DL/I Environment
- DL/I Call Processing
- DL/I Rtrieval Calls
- DL/I Update Calls
- DL/I Programming Techniques: Part 1
- DL/I Advanced Segment Search Arguments SSAs: Part 1
- DL/I Test Program
- DL/I Programming Techniques: Part 2
- DL/I Advanced Segment Search Arguments SSAs: Part 2
- System Service Calls
- Programming Standards
- High Availability Large Database (HALDB) Access

## Further Information:

For More information, or to book your course, please call us on +1 (800) 268 7737

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