

COURSE ABSTRACT

Course Code

- C007

DELIVERY METHOD

- Ez-Learn Virtual Instructor Led Training (EVILT)

COURSE DURATION

- 40 Hrs

PREREQUISITES

- Basic knowledge on JCL and COBOL is must

RECOMMENDED TRAININGS

- Batch of 5-7 students

IMS DB Programming

Course Overview

1. We start with evolution of Hierarchical structure and how cursor moves in IMS Database.
2. We focus on fundamentals on IMS concepts, we teach Access methods and pointers on a high level.
3. We teach how to create an empty IMS DB and load data from a PS file.
4. We then teach how to manage the Database and write effective and efficient calls.
5. We also deal with advanced concepts like GSAM, Secondary DB, Multiple DB positioning, Recovery procedure and IMS Restart facility.

Target Audience

1. Mainframe Programmers who are working in IMS DB Projects
2. Mainframe Programmers who wish to work in IMS DB Projects
3. Mainframe Support and Testing Professionals who wish to move into Development
4. Mainframe Engineers who wanted to search for new Opportunities in IMS DB in the Open market

COURSE ACTIVITIES

- Mainframe Engineers will be able to maintain complex IMS DB and work in their projects with ease
- Mainframe Engineers who don't have a knowledge in this rare skill will be able to master the art of maintaining IMS DB
- Programmers will get confidence in IMS DB as well and will be ready for a variety of Projects
- Mainframe Professionals will be able to their resume updated with IMS DB and look for new and better Job Opportunities

IMS DB Programming -LEARNING PATH

<https://www.ez-learn.global/ims-db-in-cobol/>

Course Modules

Program coverage		
SL.no	Topics	Learning Outcome
1	S Subsystem, Overview on IMS Online Environment	UNDERSTANDING HIERARCHICAL STRUCTURE
		PROCESSING & TERMINOLOGIES
		(SEGMENT TYPE, SEGMENT OCCURRENCE, ROOT, DEPENDANTS, PARENT, CHILD, SEGMENT LEVEL, SIBLING, TWIN, HIERARCHICAL PATH)
		DLI INTERFACE & BATCH SYSTEM ENVIRONMENT
		HIERARCHICAL ACCESS METHODS (HISAM,HIDAM)
		IMS CONTROL BLOCKS (DB CREATION - DBD)
2	IMS Control Blocks (PSB/PCB/ACB) Batch Processing (DLI/DBB/BMP)	PREPARING AN APPLICATION PROGRAM TO USE IMS RESOURCES (ENTRY & CALL STATEMENT)
		IMS CALL PARAMETERS (FUNCTION, PCBMASK, IO AREA)
3	RETRIEVAL CALLS AND STATUS CODES (GU,GN,GNP) INTRODUCTION TO SSAS (UNQUALIFIED)	
4	IMS RETRIEVAL AND UPDATE CALLS (GHU,GHNP,ISRT,REPL,DLET)	DEMO (DB MAINTENANCE PROGRAM - ISRT/REPL/DLET)
	USING SSAS EFFECTIVELY (QUALIFIED & MULTIPLE CONDITIONS WITH RELATIONAL OPERATORS)	
5	MULTIPLE DB POSITIONING	DEMO (USING COMMAND CODES - PATH CALL RETRIEVAL, SETTING PARENTAGE AND USING GNP)
	USING SSAS EFFECTIVELY (COMMAND CODES - F, L, D, P, N)	

	ONLY HIGH LEVEL OVERVIEW (UNDERSTANDING THE CONCEPT ONLY) ON SECONDARY INDEXING, IMS LOGGING, BATCH BACKOUT, RECOVERY & RESTART)	
6	WRITING AN IMS CHECKPOINT RESTART PROGRAM CONCEPTS	
	IMS EXERCISES (COMING UP WITH BETTER IMS CALLS)	
	USAGE OF GSAM	