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Course Code: CMW22G

Course Title: IMS Physical Organization of Databases

## Description:

Learn how to design, implement, reorganize, and recover Information Management System (IMS) databases. Practice these skills in intensive machine labs.

This course uses a Web conference medium with live instructor audio and Internet Web conferenced material. You have chat-type Question and Answer (Q and A) ability, plus live audio. The course is taught 10:00 a.m. to 12:00 noon and 1:00 p.m. to 3:00 p.m. Central time for eight work days over a two-week period. Since the course is taught live using Web conferencing methods, you can attend from your home or work. Class durations are approximately one-half day so you can still accommodate daily work responsibilities. You will be contacted prior to class start to receive connection information, hardcopy student materials, and other relevant information.

## Course Materials

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## Objectives:

You will learn to:

- Code the Database Directories (DBD) and Program Specification Blocks (PSB) for physical databases
- Code the DBDs and PSBs to implement secondary indexing
- Use the appropriate IMS utilities to reorganize and recover physical databases, including those with secondary indexes
- Use the DL/I test program
- Prepare a job stream to load a database using different IMS access methods

## Prerequisites:

You should have basic understanding of IMS product features **and** organization along with working knowledge of z/OS tools, Virtual Storage Access Method (VSAM) services utilities, **and** Job Control Language (JCL).

## Duration:

32 Hrs

## Topics:

- Introduction to DL/I
- IMS Access Methods
- HISAM
- DBD/PSB/Data Sets/JCL
- IMS Test Utility: DFSDDLTO

- HD Access Methods
- HIDAM
- HDAM
- Database Reorganization
- IMS Data Sets Summary
- Secondary Indexing
- Database Recovery
- Database Design Considerations
- IMS Space Utilization

**Audience:**

This is a basic level course for database administrators, system programmers, and other data administration individuals, who design, implement, and maintain IMS databases.