



IMS/VS Database Programming

Length: 5 days

Course Description: This is a lecture, discussion, and hands-on programming course covering IMS/VS database programming concepts, design, coding, testing and debugging. Segment Search Arguments (SSAs) are covered in detail along with emphasis on checking the PCB mask to understand the results of IMS database calls. Each workshop is preceded by lecture, discussion, and written exercise sessions.

Audience: This course is for students who must understand and code Data Language/I (DL/I) to access segments in IMS/VS databases.

Prerequisites: A familiarity with conventional file organizations for sequential and direct access to data records is needed. Six months of experience with COBOL and JCL is required. Also, the completion of an Introduction to IMS/VS class or equivalent experience is recommended.

Day 1

- Database Terminology, Concepts and Facilities
- IMS Access Methods
- IMS Data Blocks
- Class Database structure
- IMS Application Program Structure

Day 2

- DL/I Random Retrieval
- DL/I Sequential Retrieval

Day 3

- DL/I Loading and Inserting Segments
- DL/I Deleting and Updating Segments

Day 4

- DL/I Command Codes

Day 5

- Additional IMS DataBase Topics
- Completion of Workshop Exercises