

Course Code: CM241G

Course Title: IMS Logical Relationships

### **Description:**

Learn how to successfully implement and tune Information Management System (IMS) databases with IMS logical relationships. Examine in detail the various pointer options. Practice these skills in intensive machine-lab exercises.

### **Objectives:**

- Code the DBDs and PSBs for databases involved in logical relationships, including those using recursive data structures
- Use IMS utilities to load and reorganize logically related databases
- Choose logical relationship update rules based upon application processing requirements
- Identify DBD coding parameters that are critical to the performance of logically related databases
- Interpret the results of logical relationship implementation choices using the reports provided by the IMS Monitor

### **Prerequisites:**

You should have at least four months of experience using IMS and should be able to:

- Use TSO/ISPF or PDF
- Demonstrate basic knowledge of:
  - OS/VS Job Control Language
  - VSAM access methods service utilities
  - DL/I application programming techniques
- Describe the characteristics **and** storage format of HISAM, HIDAM **and** HDAM databases **and** code their DBDs
- Understand the IMS DB Monitor **and** use its reports to resolve database performance concerns

These skills can be developed by attending:

- *IMS ysical Organization of Databases Workshop (CM22)*
- *IMS Database Performance and Tuning Workshop (CM30)*

### **Duration:**

32 Hrs

### **Topics:**

- Introduction to Logical Relationships
- Unidirectional Logical Relationships
- Unidirectional Logical Data Structures
- Bidirectional Logical Relationships
- Bidirectional Logical Data Structures

- Database Load and Reorganization
- Recursive Structures
- ISRT Rules and Exercise
- Logical Relationship Performance
- Logical Relationship Tuning
- Design and Change Considerations

### **Audience:**

People responsible for designing, implementing, maintaining, or tuning IMS databases using logical relationships.