IMS03 IMS/ESA Concepts & Facilities

- **Course Description** This course provides students with an overview of the IMS/ESA system in both batch and online environments. The course contains quite similar material to IMS01 and IMS02, but the subject matter is discussed at a higher level and is therefore less detailed. In most parts the course is language non-specific in order to cater for programmers and non programmers alike.
- *Who Should Attend* Students should be anyone within the I.T environment who requires a functional overview of IMS/ESA. Students should not have attended IMS01 or IMS02.
 - **Pre-Requisites** No previous IMS/ESA knowledge is required, but students should be familiar with the TSO/ISPF development environment.
 - Duration 5 Days

The Information Management System

Overview of IMS/ESA Databases vs Flat Files IMS Objectives & Benefits

Hierarchical Concepts

Segment Types Levels Occurrences & Twins Key & Sequence Fields Hierarchical Sequence Hierarchical Paths

IMS/DB Control Blocks

DBD, PSB, PCB, ACB The PCB Mask(s)

Segment Search Arguments

Unqualified SSA's Qualified SSA's

DL/1 Calls

Get Calls (GU, GN, GNP) Current Database Position Setting Parentage Get Hold Calls Update Calls

Application Development Lifecycle

Control Block Generation VSAM Dataset Definition Database Load Executing A DL/1 JCL Requirements

Full Function Access Methods

HSAM HISAM HIDAM HDAM

Additional Database Features

Database Re-Org Secondary Indexes Logical Relationships

IMS/DC(TM) Overview

DL/1 review IMS/DC(TM) Overview On-Line VS. Batch

The IMS/DC(TM) On-Line Environment

The Control Region Dependent Regions Messages / Transactions The Message Queue(s) Lterms / Pterms Program Scheduling System / Transaction Flow Sys Gen Overview

On-Line Programs

MPP, IFP, BMP PCB's - I/O, D/B, Alternate Receiving Messages Replying To Messages The Expedited Message Handler Transaction Response Mode WFI Transactions

Message Format Services

MFS Functional Overview Transaction Flow Using MFS MFS Control Blocks MID, MOD, DIF, DOF)

Batch Terminal Simulator Overview

BTS Functional Overview Development Benefits BTS Commands File Requirements

IMS/DC(TM) Integrity Overview

Locking Logging Checkpoint RollBack

Conversational Processing

Conversational Transactions Overview Scratch Pad Area Processing

Fast Path Access Methods

MSDB's DEDB's DEDB Subset Pointers/Command Codes Access Method Compatibility

DFSDDLT0

Functional Overview JCL Requirements Basic Control Statements