DBASE01 IBM Database Concepts & Facilities (DB2/IMS)

Course Description This course gives an overview of both relational (DB2) and hierarchical (IMS/ESA)

database management systems and describes some of the concepts & facilities of both

and how they interact.

Who Should Attend Participants should be anyone within the I.T environment who requires a functional

overview of IBM database management systems.

Pre-Requisites At least 6 months practical experience gained within an IBM I.T environment.

Duration 5 Days

Database Management Systems

Functional Overview

DB2I IMS/ESA

DB2 Overview

Functional Overview Operational Environments The Relational Database Tables, Rows & Columns

DB2 Objects

Tables Indexes **Tablespaces Databases** Storage Groups The DB2 Catalog

The Structured Query Language

(SQL)

The Basic Select

Insert Update Delete

Referential Integrity

Primary Keys Foreign Keys Indexes

Referential Constraints

DB2 User Facilities

SPUFI QMF

DB2 Application Programs

Embedded SQL The Preprocessor

Bind

The Optimiser The DB2 Catalog

IMS/ESA

Functional Overview IMS/ESA Components

IMS/DB

Functional Overview

The Hierarchical Database

IMS/ESA Control Blocks (DBD,

PSB, PCB, ACB)

Segment Search Arguments

DL/1 Calls - Retrieval DL/1 Calls - Update

Full Function Access Methods Access Method Services

IMS/DC(TM)

Functional Overview Transactions / Messages Transaction Flow MPP's, IFP's, BMP's

Fast Path Access Methods

IMS/ESA - DB2 Joint Considerations

The Runtime Environment Inter System Communications

Reorganisation

Backup Recovery Tuning Data Integrity

Restart & Recovery