



IBM MAINFRAME ONLINE TRAINING

Self-Learning & Online Training

Duration: 31+ (Hours)

SVR Technologies

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- > Live Instructor LED Classes
- > 100% Hands on classes
- > Faculty will provide work environment
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- > Free Self-Learning Videos
- > Real-time Working Faculty
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MA.N>OPICS



Hours



Practicle Training

Life Time Free Library Access * Doubts Clarification

MVS, TSO/ISPF

Topic 01: Introduction to Mainframe

- Different Operating Systems
- Introduction to Z/OS
- Advantages of Mainframe
- Batch Processing
- Online Processing

Topic 02: Introduction To MVS, TSO/ISPF

- MVS concepts, AMODE, RMODE
- MVS Architecture (ESA / XA)
- Introduction to TSO
- TSO/ISPF Commands
- Special Keys
- ISPF Primary Option Menu
- Choosing and Backing Out of an Option
- Direct Branching
- Getting Out of ISPF
- Split Screen
- Context Sensitive Help
- ISPF Panel Characteristics

Topic 03: Additional

- Cache Memory, Expanded Memory
- DASD, DCN, 3990 Storage
- Address Space, Paging, Swapping, Page Stealing,
- Virtual Storage Concepts



Topic 04: Datasets

- Sequential Datasets
- Partitioned Datasets
- Compressing a PDS
- PDS Attributes
- Locating Datasets
- Dataset Names without Apostrophes
- Dataset Names with Apostrophes
- TSO Dataset Names

Topic 05: Browse

- Browsing a Sequential Dataset
- Browse Member List
- What a Browse Screen Looks Like
- Scrolling
- Scroll Amount
- Browse Primary Commands

Topic 06: Utility Menu

- The Library Utility
- Dataset Utility
- Allocating New Dataset
- Allocating a Partitioned Data Set
- Display Dataset Attributes
- Creating a Dataset Similar to Another
- Move/Copy Utility
- Dataset List Utility
- Dataset List Commands
- Compare data sets
- Compare data sets Extended
- Search data sets for strings of data
- Search data sets for strings of data Extended



Topic 07: Edit

- Edit Entry Panel
 - Member Selection List
 - Line Commands
 - The Find Command
 - The Change Command
-

JCL

Topic 01: Introduction to JCL

- Introduction to JCL
- JCL Statements
- JCL Syntax

Topic 02: JOB

Statement

- JOB Statement
- Operands
- Positional Parameters
- Keyword Parameters
- CLASS, MSGCLASS, MSGLEVEL, PRTY
- REGION, TIME, COND
- Notify, Restart,

TYPRUN Topic 03: EXEC

Statement

- EXEC Statement
- PARM, REGION, TIME, COND



Topic 04: DD Statement

- DD Statement
- Resource Identifiers
- SYSOUT
- DUMMY
- DSNAME
- DISP, DCB, LRECL, BLKSIZE, RECFM
- UNIT, SPACE, VOLUME, LABEL
- Temporary Data Sets
- Concatenated Data Sets
- Backwards Reference
- Generation Data

Group Topic 05: Control Flow

- Job Step Flow Control
- IF/THEN/ELSE/ENDIF Statements
- Job COND
- Step

COND Topic 06:

Procedures

- What is a Procedure
- In-Stream Procedure
- Catalogued Procedure
- Symbolic Parameter
- SET

Statement Topic 07: IBM

Utilities

- IBM Utilities
- IEBGENER Utility
- IEFBR14 Utility
- IDCAMS Utility Commands
- IEBCOPY Utility
- SORT Utility



Topic 08: Others

- Programming Considerations
- JES Statements
- JES2 Statements
- JES3 Statements

COBOL

Topic 01: Introduction to COBOL

- What is COBOL
- COBOL Advantages
- COBOL Disadvantages
- COBOL Coding Sheet
- COBOL Variables
- COBOL Character

Set Topic 02: Four Divisions

- Identification Division
- Environment Division
- Data Division
- Procedure Division

Topic 03: Procedure Division in

Depth

- Statements
- Paragraphs
- Sections
- I-O Statements
- OPEN, CLOSE
- READ, WRITE
- STOP RUN, GOBACK
- RETURN-CODE



Topic 04: Data Handling

- VALUE Clause
- Numeric literals
- Alpha Numeric Literals
- String manipulation
- Figurative Constants
- ACCEPT
- DAY, DAY-OF-WEEK
- DISPLAY
- MOVE
- Reference Modification
- Initialize

Topic 05: Branching

- EXIT
- GOTO
- PERFORM (All

flavours) Topic 06: Usage and

Redefines

- Usage Clause
- Packed Decimal
- Binary Usage
- Condition Names
- SET Verb
- Redefines
- Rename

s Topic 07: Editing

- IF-ELSE
- CONTINUE, NEXT SENTENCE
- SIGN Condition
- CLASS Condition



- Relation Condition
- Condition-Name Condition
- Table of Allowable Comparisons
- Compound & Negated IF-

ELSE Topic 08: Table Handling

- OCCURS Clause
- Building a Table (Data and Procedure Division)
- Table Lookup - Index and Subscript
- SEARCH and

SEARCH ALL Topic 09: Arithmetic

Verbs

- ADD, SUBTRACT
- MULTIPLY, DIVIDE
- COMPUT

E Topic 10:

Subprograms

- Call Statement
- Static and Dynamic

call Topic 11: File Handling

- Sequential File Handling
- Indexed File Handling
- Relative File Handling
- File Status Code
- Reading a record
- Writing a record
- Report Generation
- Master, Transaction Files
- Trapping Runtime errors
- SORT, Merge , COPY files



VSAM

Topic VSAM:

- What is VSAM
- Advantages of VSAM
- KSDS - Creation, Accessing and Deletion
- ESDS - Details
- RRDS - Details
- Alternate Index
- PATH
- BLDINDEX
- Additional VSAM Commands
- VSAM utilities and defining in CICS region (OPEN,CLOSE,ENA,DIS)
- ListCAT
- COBOL Considerations for ESDS
- IDCAMS (REPRO, EXPORT/IMPORT VERIFY, ALTER, DELETE)
- Creating and using Generation Dataset Groups, Deleting and altering GDGs

DB2

Topic 01: Introduction to SQL

- What is SQL
- SQL Syntax Rules
- DDL, DCL, DML
- Static SQL
- Dynamic SQL
- Mainframe Dynamic SQL



Topic 02: SELECT Statements

- SQL SELECT Clause
- Selecting All Rows and Columns
- Selecting Columns Names
- Eliminating Duplicates with DISTINCT
- Arithmetic Expressions
- Columns Aliases, Using "AS"
- Literals
- Concatenating Strings
- Scalar Functions
- Replacing Null Values
- VALUE/COALESCE
- SUBSTR/SUBSTRING
- LENGTH
- CHARACTER_LENGTH
- LCASE/LOWER, UCASE
- LOCATE, POSITION
- LTRIM, RTRIM and CONCAT
- REPLACE
- ROUND, CEILING and FLOOR
- TRUNCATE
- SIGN
- For Numeric Fields Only
- DAYOFWEEK
- DAYOFYEAR
- WEEK
- QUARTER
- Changing the Date Display Format
- Finding Date Differences
- Incrementing Dates
- Extracting Parts of Dates
- Times and Timestamps
- The ORDER BY clause



Topic 03: WHERE Clause

- **Basic WHEREs**
- **Compound Predicates with AND and OR**
- **Null Values**
- **BETWEEN AND**
- **IN**
- **LIK**

E Topic 04:

JOIN

- **Introduction to JOIN**
- **Inner Joins**
- **Outer Joins**
- **Joining Three of More Tables**
- **Joining a Table to Itself (Self-Joins)**
- **Using EXISTS**
- **Subqueries**
- **UNION**
- **UNION ALL**

Topic 05: Aggregate Functions

- **MAX and MIN**
- **AVG and SUM**
- **Counting Row with COUNT (*)**
- **Cardinality with COUNT(DISTINCT...)**
- **Standard Deviation**
- **Behaviour of NULLs**
- **Grouping Rows with GROUP BY**
- **GROUP BY Guidelines**
- **Filtering Groups with HAVING**



Topic 06: DML Commands

- **Statements Which Update Tables**
- **INSERT: A Single Row**
- **Using and Expression in the VALUES Clause**
- **INSERT: Copy From Another Table**
- **Inserting Into Views**
- **UPDATE**
- **Using Multiple Values in the SET Statement**
- **DELETE**
- **TRUNCATE**
- **Table-driven Multi-row INSERT**
- **MERGE**
- **SELECT from INSERT /UPDATE/DELETE/MERGE**
- **Referential Integrity**
- **Constraints**

Topic 07: Mainframe - DB2 - Part 1

- **DCLGEN**
- **Single-Row Select**
- **Variables in Programs**
- **DB2 Datatypes vs. Host Variable Definitions**
- **Numeric Variables**
- **Character Variables**
- **Coding Rules and Conventions**
- **SQLCA**
- **Handling Null Values**
- **INSERT Examples**
- **UPDATE Examples**
- **DELETE Examples**
- **Rows Affected**



Topic 08: Mainframe - DB2 - Part 2

- Program Preparation
- Plans, Packages & Collections
- Bind and Rebind
- Consistency Token
- Access Path and

EXPLAIN Topic 09: Mainframe - DB2 - Part 3

- Why A Cursor is Needed
- Multiple-Row Select Using A Cursor
- Sequential Update with a Cursor
- Commits and Savepoints
- Rollback and Release
- Common DB2 Abends related to Cursors

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MAINFRAME ONLINE TRAINING
WITH REAL TIME SCENARIOS



Duration: 25-30 HOURS
LIFETIME SELF LEARNING VIDEOS ACCESS

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