



# IBM MAINFRAME ONLINE TRAINING

Self-Learning & Online Training

Duration: 31+ (Hourse)

## SVR Technologies

Our certified faculty focused on IT industry based curriculum for Datapower Training Online. Hands-on training with tutorial videos real-time scenarios and certification guidance that helps you to enhance your career skills.



+91 988 502 2027



[info@svrtechnologies.com](mailto:info@svrtechnologies.com)



[www.svrtechnologies.com](http://www.svrtechnologies.com)

## Features

- > Live Instructor LED Classes
- > 100% Hands on classes
- > Faculty will provide work environment
- > Real-time Scenarios
- > Free Self-Learning Videos
- > Real-time Working Faculty
- > CV, Interview and Certification Guidance



MAIN TOPICS



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
- Renames

## 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
- COMPUTE

## 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
- LIKE

## Topic 04: JOIN

- Introduction to JOIN
- Inner Joins
- Outer Joins
- Joining Three or 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

Enroll For MainFrame Online Training: [MainFrame Training \(click here\)](#)



**MAINFRAME ONLINE TRAINING**  
WITH REAL TIME SCENARIOS



**Duration: 25-30 HOURS**  
LIFETIME SELF LEARNING VIDEOS ACCESS

For More Details Call or WhatsApp  
 **+91 988 502 2027**

