

# Aspiring for a career on IBM Mainframes

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Training with Placement program

## IBM MAINFRAMES

*(Legacy System)*

### What is IBM Mainframe?

Mainframe is a large-sized server from IBM. It has a history of over 50 years. It is mainly used in applications related to Banking, Insurance, Telecom, Retail, Manufacturing and other businesses. It offers features like Huge Storage capacity, Processing speed, high level security, high scalable and highly available.

### Why you must learn IBM Mainframes?

- ✓ Huge job market with very very less competition on IBM Mainframes.
- ✓ A ratio of 100 Jobs : 300 Candidates on Mainframes.
- ✓ You do not require any previous technical knowledge for learning IBM Mainframes as we cover every concept from basics.

## IBM MAINFRAMES COURSE CONTENT

By the end of NEXSOFT IBM MAINFRAMES Training Course, you will learn

### Mainframe Concepts

- ✓ Introduction to IBM Mainframe Systems
- ✓ IBM Mainframe Architecture

- ✓ Data and Job Management
- ✓ Operating Systems
- ✓ TSO, ISPF

### COBOL

- ✓ Introduction to COBOL and its versions
- ✓ COBOL Program structure
- ✓ Field Declaration – Data Types

### COBOL statements –

- ✓ ACCEPT
- ✓ DISPLAY
- ✓ MOVE
- ✓ INITIALIZE
- ✓ IF Statement
- ✓ EVALUATE
- ✓ STRING and UNSTRING
- ✓ COPY
- ✓ COMPUTE
- ✓ PERFORM
- ✓ REDEFINES
- ✓ RENAMES
- ✓ Computational Usages
- ✓ STOP RUN, GOBACK, EXIT PROGRAM

### FILE HANDLING

- ✓ How to use files in COBOL Program?
- ✓ File Programming using Sequential, Indexed and Relative files
- ✓ Realtime programs using files

### TABLE HANDLING

- ✓ Array Declaration
- ✓ Using arrays in programs with SEARCH & SEARCH ALL
- ✓ Subscripting & Indexing

## Sorting & Merging

## Resolving File Status codes and abends

## Coding Realtime Programs

### JCL(Job Control Language)

- ✓ Introduction to JCL – Batch Processing (JES2 & JES3)
- ✓ JOB, EXEC and DD statements - Parameters
- ✓ JOBLIB, STEPLIB and JCLLIB
- ✓ Temporary Datasets
- ✓ RESTART, PARM, COND, Referback, DUMMY, TYPRUN
- ✓ GDG and its uses
- ✓ GDG Base and GDG generations
- ✓ Sorting & Merging files
- ✓ Reformatting file data
- ✓ INCLUDE, OMIT
- ✓ JCL Errors and resolving abends
- ✓ PROCEDURES - Instream & Cataloged Procedures
- ✓ Symbolic & Overriding Parameters
- ✓ UTILITIES - IEBGENER, IEBCOPY, IEFBR14, IDCAMS, SORT
- ✓ Coding Realtime JCLs

### DB2(RDBMS)

- ✓ DB2 – Database concepts
- ✓ DB2 Organization
  - Tablespaces, Tables, Views, Indexes, Synonyms, Aliases
- ✓ Using SQL Queries
  - DDL(CREATE, ALTER and DROP COMMANDS)
  - DML(SELECT, INSERT, UPDATE and DELETE)
  - DCL(GRANT & REVOKE)
  - Group By, Having, Order By
  - Joins
  - Subqueries vs Correlated subqueries
  - Unions
- ✓ DCLGEN, SPUFI and QMF
- ✓ DB2 Utilities

- ✓ NULLS – Null Indicators
- ✓ Cursors and Types
- ✓ SQLCA
- ✓ DB2 Program Preparation
  - Pre-compilation
  - BIND – Packages & Plans
- ✓ DB2 Locking and Concurrency
- ✓ Locking Modes
- ✓ Isolation Levels
- ✓ Commit & Rollback
- ✓ Constraints
- ✓ DB2 Performance issues and tuning techniques
- ✓ SQLCODES and resolving abends
- ✓ COBOL-DB2 Realtime Programming

### VSAM(File Concept)

- ✓ Introduction to VSAM
- ✓ VSAM Datasets – ESDS, KSDS, RRDS
- ✓ Space management
- ✓ Alternate Indexes
- ✓ Dataset structures
- ✓ Defining Clusters
- ✓ IDCAMS – Repro, Print, Alter, Delete
- ✓ START, INVALID KEY
- ✓ Accessing VSAM files from COBOL
- ✓ File status codes and abend codes
- ✓ Coding programs using VSAM files

### CICS(Customer Information Control System)

- ✓ Introduction to CICS
- ✓ Batch vs Online systems
- ✓ CICS System tables
- ✓ Triggering CICS transactions
- ✓ Conversational and Pseudo-conversational programming
- ✓ BMS Macros – Maps and Mapsets
- ✓ CICS commands
  - EIB
  - Commarea

Exceptional conditions

Handle condition

Ignore Condition

RESP

- ✓ Control Operations
  - TDQs and TSQs
  - Return, XCTL and LINK
  - ASKTIME, FORMATTIME, START, ATI, CANCEL
- ✓ CICS Abend codes and resolutions
- ✓ Coding Online programs using COBOL, CICS, VSAM and DB2

#### **Tools**

- ✓ File-Aid for files & DB2
- ✓ Changeman
- ✓ Xpeditior

#### **Software Engineering**

- ✓ Application development covering all phases of SDLC
- ✓ Quality Management
- ✓ Documentation

#### **Highlights of NexSoft Training programs**

1. Training programs are designed to meet corporate needs.
2. Corporate style PPT presentation of topics so we do not miss any concept.
3. Limited number of students per batch.
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5. Complete Lab practice within the class itself.
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IBM Mainframes

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