

## **MVS Skill Pack (MVS, TSO/ISPF, JCL)**

### **Course Summary**

#### **Description**

This course consists of three classes designed to acclimate users to the IBM mainframe environment using OS/390 operating systems. The first class is lecture with review and is designed to give a common base of terminology for the following two sections. The TSO and ISPF course of training is lecture with instructor guided hands-on exercises in using the command prompt and graphical user interface for the operating system. The final class introduces the student to the MVS/JCL language used for production processing using lecture and instructor guided hands-on exercises.

#### **Topics**

- Computer overview
- z/OS concepts
- System configuration and operating modes
- UNIX System Services
- Software Virtualization with z/VM and z/Linux
- TSO and ISPF v.5 user's interface
- JCL statements and syntax
- JOB statement
- EXEC statement
- DD statements
- PROC and PEND statements
- JCLLIB statement
- INCLUDE and SET statements
- IF, THEN, ELSE and ENDIF statements

#### **Audience**

This course is intended for personnel who are new to the z/OS operating systems or are seeking a refresher course in basic terminology, interfaces and JCL program execution.

#### **Duration**

Five days

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### Course Outline

- I. Computer Overview**
  - A. History
  - B. Binary and hexadecimal operations
  - C. Hardware
  - D. Software
    - 1. Operating systems
    - 2. Programming languages
- II. z/OS Concepts**
  - A. Virtual storage
  - B. Channels and control units
  - C. PR/SM
  - D. MVS JCL Overview
    - 1. Job Entry Subsystem (JES)
  - E. Data set names and catalogs
  - F. File access methods
    - 1. Sequential
    - 2. Direct access
  - G. Networks: VTAM and TCP/IP
- III. System Configuration and Operating Modes**
  - A. TSO native mode and TSO session manager
  - B. ISPF mode features
- IV. ISPF v.4**
  - A. Hierarchy
  - B. Saving settings
  - C. Panel design
  - D. The primary menu options
  - E. ISPF settings (ISPF PARMS)
  - F. System display and spool facility (SDSF) or equivalent
  - G. Function keys: display, usage and editing
  - H. The ISPF utility menu
    - 1. The library utility
    - 2. The data set utility
    - 3. The move/copy utility
    - 4. The data set list utility
  - I. The ISPF workplace (v. 4.2 and up)
  - J. ISPF edit
    - 1. Profiles
    - 2. Line commands
    - 3. Primary commands
- V. JCL Statements and Syntax**
- VI. JOB Statement**
  - A. CLASS, MSGCLASS, NOTIFY, REGION, TYPRUN
  - B. Other JOB operands
- VII. EXEC Statement**
  - A. PGM, PROC, COND, PARM, REGION
  - B. Other EXEC operands
- VIII. IF...THEN, ELSE Statements for conditional execution**
- IX. DD Statements (Data Definition)**
  - A. Assigning input or output to a NULLFILE
  - B. In-stream data inputs
  - C. SYSOUT (system printer output) and refer back
  - D. DSN and DISP (data set definition) and refer back
    - 1. Generation data groups
    - 2. Temporary data sets
    - 3. PDS and member
  - E. Creating disk data sets
    - 1. UNIT
    - 2. SPACE
    - 3. DCB and refer back
    - 4. DF/SMS Operands
  - F. Creating tape data sets
    - 1. UNIT
    - 2. VOL
    - 3. LABEL
  - G. Data set concatenation
  - H. Special DD names
    - 1. JOBLIB, STEPLIB
    - 2. SYSABEND, SYSUDUMP, SYSMDUMP
- X. PROC and PEND Statements**
  - A. In-stream PROC
- XI. JCLLIB Statement**
  - A. Defining a user PROCLIB and executing PROCs
- XII. INCLUDE and SET Statements**
  - A. Creating INCLUDE members with SYMBOLICS

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