

# Host Boot Camp (MVS, ISPF, JCL)

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## Duration

5 days

## Description:

This course is a combination of three IBM mainframe technologies. The first technology is a lecture and review of the MVS operating system designed to provide a common basis of terminology that is required for the following two sections. The second technology is a lecture, review and hands-on instructor led labs with ISPF. The last technology is an introduction to the Job Control Language (JCL). The labs are used to support the lecture and to give each student a chance to code JCL and test and run their jobs and check for errors. After the JCL section is covered, students will learn to write a multi-step program that will Compile and Link programs.

## Course Objectives:

In this course students will learn the following:

- Mainframe operating system terminology
- System configuration and history of MVS
- Introduction to SMS
- JES2 and JES3 differences
- TSO/ISPF introduction
- ISPF hierarchy
- ISPF commands
- JCL formats
- JCL JOB card
- JCL EXEC card
- JCL DD statements
- IF/THEN/ELSE/ENDIF
- JOBLIB, STEPLIB, and JCLLIB statements
- OUTPUT statements
- SET and INCLUDE members
- Cataloged and in-stream procedures with symbolic overrides
- How to Compile, Link and GO

## Audience

This course is intended for personnel who are new to the Mainframe operating systems or those who are seeking a refresher course in basic to intermediate JCL programming execution.

## Prerequisites

There are no prerequisites for this course.

## Course Contents:

### Chapter 1 - MVS Overview

- MVS terminology
- System configuration
- History of MVS
- PR/SM partitioned resources/system manager
- Virtual storage and paging
- Programming language
- Computer data

- Storage devices
- MVS managers
- JES Job Entry Subsystem
- Data sets
- VSAM
- Networks

### **Chapter 2 - ISPF Introduction**

- TSO/ISPF configuration
- TSO line mode
- TSO REXX and CLIST

### **Chapter 3 - ISPF Operation Modes**

- Hierarchy primary option menu
- ISPF menu options
- Menu panel description
- ISPF navigation
- ISPF action bar
- Introduction to ISPF profile

### **Chapter 4 - ISPF PDS Setup**

- ISPF utilities
- Partition data set allocation
- Sequential data set allocation
- ISPF settings
- Introduction to SDSF

### **Chapter 5 - ISPF Edit Functions**

- ISPF edit/view panel
- ISPF edit/view profile save settings
- ISPF edit/view sessions
- ISPF edit/view commands

### **Chapter 6 - JCL Formats and Syntax**

- JCL statements job streams
- JCL format and syntax
- JOB card
- IEFBR14

### **Chapter 7 - JCL EXEC Card**

- EXEC card
- Job steps

### **Chapter 8 - DD Statement Format**

- DD statement overview
- DD statement

### **Chapter 9 - DD Statement DSN**

- Permanent/Temporary data sets
- Generation data sets
- Reference back options
- JOBLIB, STEPLIB, JCLLIB
- IF/THEN/ELSE/ENDIF
- OUTPUT statements

- INCLUDE statement

#### **Chapter 10 - PROCEDURE Statements**

- Catalog procedure
- Symbolic overrides
- In-stream procedures
- PEND statements
- Set statements

#### **Chapter 11 - Compile, Link and Go**

- Introduction to Multi-step jobs
- What is the Compiler
- Code the DD statements for the Compile
- Code the DD Statements for the Bind
- Input and Output Data Files for the Go or Execute JCL
- Use and Understand the Compile/Link/Go Process