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Job Control language for IBM Mainframe

FA-0275 · 2-day

Mainframe & Enterprise Systems

Introduction

This 2-day course, "Mastering Job Control Language (JCL) in MVS Environments," aims to provide a comprehensive understanding of Job Control Language (JCL) and how to effectively utilize it for data processing jobs within the Mainframe Virtual Storage (MVS) environment. The course covers the overall structure and purpose of JCL, introduces the three main JCL statements, and delves into the coding of the JOB and EXEC statements. Additionally, participants will learn how to analyze job output listings, discuss libraries, and explore conditional processing.

Learning outcomes

Upon successful completion of this course, participants will be able to:

- Understand the structure and purpose of JCL in MVS environments.
- Identify and use the three main JCL statements: JOB, EXEC, and DD.
- Write and execute JOB and EXEC statements for various data processing tasks.
- Analyze job output listings for troubleshooting and optimization.
- Understand libraries and their role in JCL coding and execution.
- Implement conditional processing in JCL coding.

Training outline

1. Day 1:

Introduction to JCL and MVS environments

- Overview of JCL and its role in MVS

- The significance of JCL in data processing tasks

The structure and purpose of JCL statements

- JOB statement
- EXEC statement
- DD statement

Coding JOB statements

- Components of the JOB statement
- Creating and modifying JOB statements
- Defining job parameters and accounting information

Coding EXEC statements

- Components of the EXEC statement
- Creating and modifying EXEC statements
- Defining program name, procedure name, and parameters

Sort Utilities

- Types of sort utilities
- Sort parameters
- Sort parameters
- Sorting large datasets
- Troubleshooting sort problems

- Exercise: Writing and executing basic JCL scripts

2. Day 2:

Analyzing job output listings

- Understanding output listings
- Troubleshooting common errors
- Optimizing job performance

Libraries in JCL

- Types of libraries
- Accessing and managing libraries
- Allocating and using libraries in JCL coding

Conditional processing in JCL

- Overview of conditional processing
- Implementing IF/THEN/ELSE constructs
- Using return codes for decision-making

Advanced JCL coding techniques

    - Utilizing symbols and parameters
    - Implementing procedures and overrides
- Exercise: Writing and executing advanced JCL scripts
- Course review and Q&A

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