z/OS JCL Workshop Part 1 - Foundation Skills Training

Duration: **3 Day**

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Overview

This course is essential for all those working in technical roles within a z/OS environment. The course teaches the coding of job control statements to execute programs and access datasets and how to write and test catalogued procedures.

The course combines classroom tuition with practical exercises using various IBM utilities.
This definitive JCL course is regularly upgraded to reflect recent developments in z/OS. The practical sessions of this course now comprise almost 40% of the course timetable!

This course is also available for one-company, on-site presentations and for live presentation over the Internet, via the Virtual Classroom Environment service.

Prerequisites

The ability to use TSO/ISPF and a basic knowledge of z/OS and its file structure.

What You Will Learn

- state the purpose of each z/OS job control statement
- code JCL statements to access disk and cartridge files
- describe and use the commonly used parameters
- correct syntax errors in JCL statements
- code in-stream procedures and override, nullify and add parameters
- appreciate the implications of SMS when using z/OS JCL.

Outline

z/OS: Structure & Components

z/OS background and history; MVS main memory and virtual storage; MVS versions; Address space layout; Common area; Private area; Main components of z/OS; z/OS processing environments: On-line, TSO, ISPF, Batch; MVS spooling; Other program products and their functions.

Introduction to z/OS Job Control Language

Basic job structure; Job stream processing; JCL output; JCL statement types; JCL statement format and coding rules; JES2 control statements; JES3 control statements; JCL error points.

The JOB Statement

The JOB statement overview; Accounting information - positional; Programmer's name - positional; Keyword parameters; Other keyword parameters; Example JOB statements.

The EXEC Statement

The EXEC statement; EXEC format - program; EXEC format - procedure; EXEC keyword parameters; Other EXEC keyword parameters; COND parameter; EVEN or ONLY; Example EXEC statements; EXEC statement summary.

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Printing & In-stream Data

Print files & In-stream data; Printing: Examples, DEST, COPIES, DCB; Output statement; OUTPUT statement: Implicit, Explicit, Multiple output; Output statement parameters; Examples; OUTDISP parameter; In-stream data.

The DD Statement

The DD statement; DD parameters: DSN, DISP, UNIT and VOL; SMS considerations; DD statement summary: Existing catalogued dataset, Existing non-catalogued dataset.

The DD Statement - Working with Datasets

Dataset types; Sequential datasets; Partitioned Data Sets; VSAM datasets; BUFNO; Accessing existing datasets; Creating new non-VSAM datasets; Data Control Block parameters; SPACE parameter; Space allocation DSCBs; System Managed Storage: Disk datasets with SMS, Space allocation with SMS. DCB parameters with SMS; Creating VSAM datasets in JCL; Generation datasets; SMS GDG considerations; Stages in creating a generation dataset; Tape datasets; . LABEL parameter; DD statement summary; Creating a new dataset on disk - non-SMS; Creating a new tape dataset.

Further DD Considerations

Special ddnames; JOBLIB; STEPLIB; Dump datasets; Concatenated datasets; Temporary dataset names; Dummy datasets.

Procedures

JCL procedures; In-stream procedures; What a catalogued procedure cannot contain; Cataloguing a procedure; INCLUDE statement; Calling a procedure; Symbolic parameters; Examples of symbolic translation; Default parameters; Resolving symbolic parameters; SET statement; Modifying EXEC statement parameters; Modifying DD parameters; Concatenated data sets; Adding DD statements; Substitution prefixes; Using a standard COBOL compile/link/go procedure.

Conditional JCL Statements

The general construct; Name field; Relational-expression field; Relational-expression keywords; Comparison operators; Logical operators; NOT operator; Order of priority of operators; Parentheses; THEN and ELSE clauses; Contents of THEN and ELSE clauses; IF/THEN/ELSE/ENDIF and COND.

Common MVS Abend Codes

Problem handling; Program abends; Common MVS completion codes.