

Chapter 1: Running a Simple Job

You will learn:

- z/OS operating system and resource management.
- The role and functions of JCL.
- How to code basic JCL statements.
- JCL syntax and naming rules.
- How to use JCL for running a utility program.
- How to interpret JCL listings.
- IEBGENER utility.
- Allocation and termination messages.
- Utility messages.

Chapter 2: Using Existing Datasets

You will learn:

- Coding DD statement parameters for existing datasets.
- Coding statements for tape datasets.
- Concatenating input datasets.
- Managing tape datasets.
- Tape operation concepts.
- Catalog maintenance.
- IEHLIST utility program - listing the content of a catalog.
- Utility control statements.
- LISTCTLG control statement - generate a catalog listing.
- IEHPROGM utility program - adding and deleting catalog entries.

Chapter 3: Creating Datasets

You will learn:

- How to create new tape and disk datasets.
- DCB: Data Control Block.
- Calculating space requirements.
- Utilities for maintaining disk datasets.
- VTOC: listing.

Chapter 4: Non-sequential Dataset

You will learn:

- Creating and using members in a partitioned dataset.
- How to create and maintain partitioned datasets.
- Creating and maintaining VSAM datasets.
- IEHLIST utility program.
- IEBCOPY utility program.
- IEHPROGM utility program.
- VSAM concepts and JCL: VSAM datasets.
- IDCAMS - VSAM utility.

Chapter 5: Running Complex Jobs

You will learn:

- Controlling program execution.
- JCL syntax: checking without execution.
- Passing information to a program.
- DD statement - special functions.
- Program dumps.
- Backward references and referbacks.
- Conditional program execution.
- Return codes.
- Testing for an abend.
- Restarting a job and checkpoint restarts.

Chapter 6: Procedures

You will learn:

- How to execute procedures.
- Catalogued and in-stream procedures.
- Procedure expansion.
- Overriding parameter values.
- EXEC overrides.
- DD overrides.
- Referbacks.
- Symbolic parameters.
- Writing simple procedures.
- Utilities for procedures.
- IEBTPCH utility.

Chapter 7: Specialized JCL Features

You will learn:

- How to use GDGs: Generation Data Groups.
- Building a Generation Data Group.
- Spool options.
- Controlling spooled output.
- Dynamic allocation and deallocation.
- Virtual I/O - VIO.

Chapter 8: Additional JCL Topics

You will learn:

- Compiling a source program.
- Linkage editor.
- Compile and link procedures.
- Interpreting output listings.
- JES job log.
- Interpreting z/OS messages.
- System accounting information.

Chapter 9: JES Control Statements

You will learn:

- JES2 and JES3 - functionality and usage comparison.
- JES2 - control statements.
- JES2 - SETUP statement.
- JOBPARM statement.
- Job scheduling parameters.
- PROCLIB parameter.
- Job output parameters.
- OUTPUT statement and parameters.
- JES3 control statements.
- MAIN statement.
- SYSTEM parameter.
- IORATE parameter.
- JES3 - SETUP parameter.
- JES3 job scheduling.
- JES3 FORMAT statement.

Chapter 10: Running Jobs in Network

You will learn:

- JES2 - network statements.
- JES2 - processor selection.
- JES2 - directing output.
- JES2 - controlling a remote workstation.
- JES3 - network statements.
- JES3 - directing output.
- JES3 - controlling a remote workstation.

Chapter 11: Storage Management Subsystem

You will learn:

- SMS: Storage Management Subsystem - facilities and features.
- SMS constructs.
- New dataset definition - class and DD parameters.
- DATACLAS, STORCLASS, and MGMTCLAS parameters.
- Volume allocation for SMS managed datasets.
- RECLLENGTH: request for records.
- Direct access space - allocation.
- Overriding - individual dataset attributes.
- Migration and backup.
- Processing VSAM datasets with SMS - parameters.

Chapter 12: JCL Extensions

You will learn:

- JCLLIB statement.
- Multiple search libraries.
- INCLUDE statement.
- SET statement.
- IF/THEN/ELSE/ENDIF statement construct.
- NESTED IF statement.
- JOB statement - clauses.
- Statement - clauses.