

**Chapter 1: CICS Concepts and Facilities**

You will learn:

- Features/facilities of CICS.
- CICS terminology.
- Compare batch and on-line processing.
- Features of file support in an on-line environment.
- Differences between conversational and pseudo-conversational programming techniques.
- Multi-threaded versus single-threaded programs.
- On-line processing / real time processing.
- CICS and EJB: Enterprise Java Beans.
- Web access.
- JAVA and CICS.
- 3270 bridge mechanism.
- CICS TCP/IP support.
- DB2 enhancements.
- DB2 group attach.

**Chapter 2: Task Definition in CICS**

You will learn:

- PCT and PPT - tasks and programs.
- Task initiation in CICS.
- Multi-tasking and re-enterability.
- CICS storage layout.

**Chapter 3: Command Level Programming**

You will learn:

- Command format.
- Argument values.
- Languages supported.
- Preparation of Command Level programs for execution.
- RECEIVE command line.
- Sample CICS listing.
- Referencing areas outside the program.
- VS COBOL linkage Section.
- EIB: EXECUTE INTERFACE BLOCK.
- Program structure.
- Paging effects - reduction.
- Working set - minimizing the size.

**Chapter 4: Handling Exceptional Conditions**

You will learn:

- HANDLE CONDITIONS command.
- IGNORE CONDITION.
- NOHANDLE OPTION.
- Alternative to HANDLE CONDITION.
- Structured handling.
- Nonstructured exception handling.
- Functions codes.
- Response codes.
- ABEND processing.

**Chapter 5: Terminal Control**

You will learn:

- 3270 Native-mode programming.
- 3270 output.
- 3270 input.
- SEND command.
- RECEIVE command.
- RECEIVE/SEND program.

**Chapter 6: Basic Mapping Support**

You will learn:

- Creating a mapset.
- Physical maps.
- Symbolic maps.
- Map definition.
- Data formats.
- DFHMSD, DFHMDI, DFHMDF macro.
- Single-map page.
- BMS COPYBOOK.
- Symbolic maps - copying into programs.
- Simple send map.
- RECEIVE MAP command.
- SEND MAP command.
- Page building.
- Disposition.
- Control options.
- SEND PAGE command.
- PURGE MESSAGE command.
- BMS exceptional conditions.
- Standard attribute/ Printer Control Character List (DFHBMSCA).
- HANDLE AID command.
- Alternative to HANDLE AID.
- Attributes for use with CICS/VS.

**Chapter 7: Program Control**

You will learn:

- TRACE function.
- Passing control among programs within a task.
- LINK and XCTL commands.
- RETURN command.
- Passing data between programs and between tasks.
- COMMAREA Option
- Passing data in CICS areas.
- ADDRESS command.
- ASSIGN command.
- Conversational vs pseudo-conversational design.
- LOAD command.
- RELEASE command.
- Abnormal task termination.
- ABEND command.
- ABEND exits and logical levels.
- Program control exceptional conditions.

**Chapter 8: File Control**

You will learn:

- Record identification.
- Read command.
- UPDATE option.
- REWRITE command.
- DELETE command.
- UNLOCK command.
- WRITE command.
- STARTBR command.
- READNEXT and READPREV commands.
- RESETBR command.
- VSAM Skip-sequential processing.
- ENDBR command.
- File control exceptional conditions.
- VSAM BROWSE program.

**Chapter 9: Performance Objectives**

You will learn:

- Temporary storage - purpose and function.
- WRITEQ TS command.
- READQ TS command.
- DELETEQ TS command.
- Temporary storage exceptional conditions.
- Temporary storage program.

**Chapter 10: Transient Data**

You will learn:

- Transient data.
- Extrapartition transient data.
- Intrapartition transient data.
- WRITEQ TD command.
- READQ TD command.
- DELETEQ TD command.
- Transient data exceptional conditions.

**Chapter 11: Debugging**

You will learn:

- TRACE function.
- Trace entry formats.
- ENTER command.
- TRACE command.
- DUMP function.