

CICS COBOL Programming: Command Level Application Development Training

OEM: IBM • Duration: 5 Days (40 hrs) • Code: V010020G

COURSE MODULES & TOPICS

Objectives

- Understand CICS architecture and the pseudo-conversational programming model
- Design and code BMS (Basic Mapping Support) screen maps
- Write Command Level COBOL programs for CICS transaction processing
- Debug CICS applications using CEDF and diagnostic tools
- Integrate CICS programs with databases and sequential data access

Unit 1. CICS concepts and terminology

- CICS concepts, facilities, components
- Eight steps in CICS program development

Unit 2. Using Basic Mapping Support (BMS)

- IBM 3270 display screen characteristics
- Coding BMS macros instructions

Unit 3. CICS Command Level programming

- Program design concepts - Pseudo-conversational
- Command Level COBOL

Unit 4. Program Design (beyond the basic commands)

- The EXEC Interface Block (EIB)
- Terminal Control
- CICS File Control commands
- Exceptional Condition Control
- Special programming techniques

Unit 5: Program control facilities

- 'Transfer' to another program (XCTL)
- 'Link' to a sub-program (LINK)

- Return control (RETURN)
- The COMMunications Area

Unit 6: Test and Debugging

Unit 7: Overview of storage control facilities

- Transient data queues
- Temporary storage queues
- Journaling
- CICS system tables

Unit 8: Sample Application program - A review of a Program

Unit 9: Workshop exercises

- Testing your BMS map
- A first program
- Read and update a file

Unit 10: Integration with External Databases

- Connecting to Oracle, SQL Server, PostgreSQL, etc.
- Wrapper and driver configurations
- SQL dialect differences and compatibility
- Ensuring cross-system data consistency
- Best practices for hybrid system integration