

## CICS Programming

**Duration:** 5 days

**Course Description:** This course provides an experienced programmer with the basic tools necessary to begin coding command level CICS programs. Common CICS coding techniques are reviewed and hands-on lab work is scheduled according to the available environment

**Audience:** Experienced programmers

**Prerequisites:** Working knowledge of an object-oriented programming language (C++ preferred) and familiarity with object-oriented design principles.

### MODULE 1: CICS CONCEPTS

- Definitions
- Features
- Terminals
- Programs
- Transactions
- Files/Data Bases
- Command Level Interface
- Recovery

### MODULE 2: CICS STRUCTURAL REVIEW

- CICS Structural Overview
- Management Modules and Services
- Major Management Modules
- CICS Tables

### MODULE 3 INTRO TO CICS CODING

- The command level interpreter
- Restrictions (PL/I, COBOL or Assembler)
- Outputs of the interpreter
- Dealing with exceptional conditions in CICS

### MODULE 4

- LINK, LOAD, XCTL, RELEASE, RETURN, ABEND syntax
- The concept of XCTL

### MODULE 5:

- Terminal Control
- SEND, RECEIVE syntax
- When to use terminal control vs basic mapping

- Offline Basic Mapping Support  
Introduction to programming the 3270  
Fields, attributes, orders  
DFHMSD macro  
(TYPE, TERM, TIOAPFX, CTRL, LANG, MODE, STORAGE operands)
- DFHMDI macro (SIZE operand)
- DFHMDF macro (POS, LENGTH, ATTRB, INITIAL, PICIN, PICOUT, JUSTIFY operands)
- Concept of a mapset
- Physical vs symbolic map