

Duration: 3 days

Course Number: ISI-CICS-04

Description

The primary objective of this course is to develop basic CICS applications written in Java. Emphasis is on the design and development of CICS transactions initiated from a Web browser. CICS programmers need to know how to develop e-business client applications using JAVA and the CICS Web Server. Upon successful completion of this course, students should be able to:

- Design and develop basic application programs for CICS Java environments.
- Explain the basic architecture of Object Oriented Programming.
- Describe the basic components of the Java language.
- Design applications that separate presentation logic from business logic.
- Use Java Classes for CICS (JCICS).
- Control data flow to and from other CICS program modules.
- Add, update and delete records from VSAM files and DB2 databases.
- Where and when CICS temporary storage and transient data queues should be used.
- Handle and manage exception conditions from JCICS.
- How to prepare programs and run tests, using messages and debugging tools.

A series of written and lab exercises will be used to reinforce the classroom education.

Audience

JAVA programmers who need to learn how to develop eCommerce applications using CICS as a Web Server, or CICS programmers with some JAVA background who need to develop Web-enabled applications.

Prerequisites

- Java Programming using VisualAge for Java, *or*
- CICS application programming experience and Java application programming experience.

Course Agenda

Introduction to Object Oriented Programming and Java for OS/390

Java Application Architecture for the OS/390

Java Classes and Beans for Accessing Existing Data on OS/390

Using CICS Resources with JCICS Classes

CICS Terminal Control Services

CICS Exception Handling

CICS File Control Services

CICS Temporary Storage and Queue Services

CICS Transient Data Queue Services

CICS Program Control Services

CICS Interval Control Services

CICS Environment Services

Pseudo-conversational Coding Support

Accessing DB2 Data

Debugging Options for OS/390 Java Applications

Course Agenda (continued)

Creating DataWindows

- Presentation Styles
- Data Sources
- DataWindow SQL Options
- Customizing the DataWindow Design

Course Agenda (continued)

Distributing the Application

- Creating an Application Executable
- PowerBuilder Resource Files
- PowerBuilder Dynamic Libraries
- Creating a Machine Code Executable