

Advanced CICS

Duration	3 days.
Participants	This course is designed for students who are experienced COBOL CICS developers who need to program more efficiently and use some of the newer CICS features of CICS TS and CICS/ ESA.
Overview	This course focuses on writing efficient, complex CICS Applications and using new features found in CICS TS and CICS/ ESA.
Objectives	Upon successful completion of this course you will be able to: • Describe and use new features in CICS TS and CICS/ ESA. • Use a variety of efficient techniques to reduce the size, run-time, and transmission time of CICS programs. • Describe the impact of multiple and remote regions and use them to write more complex systems.
Prerequisites	A working knowledge of CICS COBOL programming is required.
Format	Lecture and hands-on computer workshops.
Topic Outline	CICS Terminology (Review) Transmission Efficiencies LOW-VALUES SEND efficiencies MDT Abends and Abend Trapping Data Sharing between Programs Program Control XCTL LINK Menus and RETURN EIBFN INPUTMSG CALL AMODE Remote programs Abend handling Internal Control Interval control features ASKTIME, FORMATTIME START RETRIEVE WAIT EVENT, POST SUSPEND DELAY CANCEL

Advanced CICS (continued)

Topic Outline

I/O Efficiencies

- SET versus INTO on READ, RECEIVE, MAP, etc.
- GETMAIN, FREEMAIN
- RECEIVE, SET

Transient Data

- Intrapartition Queues
- ATI
- Extrapartition Destinations
- Indirect Destinations
- WRITEQ TD, READQ TD, DELETEQ TD
- Printing
- Recoverable Queues
- MQueues

CICS Storage Protection and Transaction Isolation

CICS Intercommunication Facilities

- MRO
- ISC
- Function shipping
- DLP
- EXCI
- CALL API, EXEC API
- DCE RPCs
- Transaction routing
- DTP
- Multi-region
- Time-sharing
- Remote resources

Miscellaneous Topics

- BMS enhancements
- EOC condition
- Finding the cursor location

Design Considerations

CICS Environmental Factors