

## SMP/E Fundamentals (4 Days)

---

### Course Summary

#### Description

This course provides the fundamentals of SMP/E processing for installation and maintenance of systems software and program products. Topics will include an examination of SMP/E commands, a detailed review of MCS statements and their purpose, and exercises to enable the student to gain a working familiarity with SMP/E processing.

#### Topics

- SMP/E Overview and Methodology
- The Utilities
- Installing SYSMODS
- Monitoring the System
- Managing the SMP/E Database
- Managing Zones
- MCS Statements
- Service Routines

#### Audience

This course is designed for systems programmers and support personnel that will have responsibility for maintaining the SMP/E environment.

#### Prerequisite

Students should be familiar with JCL, MVS utilities, and the use of TSO/ISPF.

#### Duration

Four Days

## SMP/E Fundamentals (4 Days)

---

### Course Outline

#### I. *SMP/E Overview and Methodology*

- A. Examine SMP/E data sets and their roles in maintaining system information
- B. Introduction to SMP/E dialogues
- C. Introduction to the SMP/E Zones; global, target, and distribution
- D. Establishing the SMP/E environment and its definitions
- E. Service Elements
- F. What is a SYSMOD
- G. Sample Function, PTF, APAR, USERMOD
- H. SYSMOD Relationships
- I. System Libraries
- J. Consolidated Software Inventory (CSI)
- K. Zone Relationships
- L. Tracking and Control
- M. ISPF Menu Example
- N. Query MOD, LMOD
- O. Examine Binder Statements
- P. Module Prefix XREF
- Q. Program Directory Information
- R. Exception Data
- S. Enhanced HOLDDATA
- T. HOLDDATA Example
- U. Enhanced HOLDDATA Flags
- V. CSI Data Sets
- W. Single/Multiple CSI Definitions
- X. CSI Allocation
- Y. Defining Zones - UCLIN
- Z. GLOBAL Zone Definitions
- AA. Global Zone Options
- BB. GLOBAL Utility Definitions
- CC. GLOBAL FMIDSET Definitions
- DD. Defining Utilities and Options
- EE. Specifying Data Sets
- FF. Basic SMP Data Sets
- GG. Additional SMP/E Data Sets
- HH. SMPPTS Considerations
- II. SMP/E Utility Data Sets
- JJ. SMP/E UNIX Files
- KK. SMP/E Work Data Sets - 1
- LL. SMP/E - GIMGTPKG Service
- MM. General Data Set Specification
- NN. CICS FTP Download
- OO. Sample DDDEF Definitions
- PP. Sample GIMDDALC Member

- QQ. Cross Zone Requisite Checking
- RR. SMP/E Exit Routines
- SS. Cloning Strategies
- TT. SET Command
- UU. UCLIN Processing
- VV. RESETRC Command
- WW. SMP/E Dialogs vs JCL
- XX. Primary Menu Example
- YY. Basic SMP/E JCL
- ZZ. Dialog Functions
  - Lab #2: Dialogs and JCL
    - UNLOAD Processing
  - Lab #3: UNLOAD command

#### II. *The Utilities*

- A. IDCAMS – VSAM Functions
- B. IEBCOPY
- C. BPXCOPY
- D. SMA90 (Assembler)
- E. HEWL (Linkage Editor)
- F. IEBUPDTE
- G. AMASPZAP

#### III. *Installing SYSMODS*

- A. Research
- B. Program Directory Review
- C. Basic SMP/E Commands
- D. RECEIVE Processing
- E. Sample RECEIVE Commands
- F. RECEIVE Reports
- G. Enhanced RECEIVE
  - Lab #4 – RECEIVE Processing
- H. REJECT Processing
- I. APPLY Processing
- J. Sample APPLY Commands
- K. APPLY Reports
- L. APPLY GROUPEXTEND
- M. Causer SYSMOD Summary Report
  - Lab #5 – APPLY sysmod
- N. RESTORE Processing
- O. Sample RESTORE Commands
- P. RESTORE Reports
  - Lab #6 – RESTORE sysmods
- Q. ACCEPT Processing
- R. Sample ACCEPT Commands
- S. ACCEPT Reports
- T. ACCEPT GROUPEXTEND
  - Lab #7 – ACCEPT sysmods
- U. Exception Sysmods

## SMP/E Fundamentals (4 Days)

---

### Course Outline (cont.)

- V. exception RECEIVE
- W. Resolving ++HOLD - APPLY
- X. BYPASS Considerations
- Y. Resolving HOLDERRORS
- Z. Removing HOLDDATA
- AA. Managing HOLDDATA
  - Lab #8 – Managing Sysmods

#### IV. *Monitoring the System*

- A. LIST Commands
- B. REPORT Commands
- C. REPORT CROSSZONE Command
- D. REPORT ERRORSYSMODS Command
- E. REPORT ERRSYSMODS
- F. REPORT SOURCEID Command
- G. REPORT SOURCEID
- H. REPORT SYSMOD Command
- I. FIXCAT Holddata
- J. Update HOLDDATA Options
- K. Update FIXCAT Options
- L. Update FIXCAT Options
- M. REPORT MISSINGFIX Command
- N. REPORT MISSINGFIX Command
  - Optional Lab – Report Processing

#### V. *Managing the SMP/E Database*

- A. JCLIN Processing
- B. Conditional JCLIN Processing
- C. JCLIN Example –
- D. Conditional Processing
- E. UPGRADE Processing
- F. BUILDMCS Command
  - Lab #9 – BUILDMCS

#### VI. *Managing Zones*

- A. ZONE Commands
- B. GZONEMERGE
  - Lab #10 – GZONEMERGE
  - Lab #11 – Import/Export
- C. LOG Processing
- D. CLEANUP Processing
- E. DEBUG Processing
- F. DEBUG MSGMODID
  - Lab #12 – Debug
- G. GENERATE Command

#### VII. *MCS Statements*

- A. SYSMOD Structure
- B. SYSMOD Management
- C. MCS Elements
- D. Element Examples
- E. Utility Functions
- F. Utility Function Examples
- G. Documentation MCS
- H. Documentation MCS Examples
  - Lab #12 – MCS Statements Lab
  - Lab #13 – MCS Processing
  - Lab #14 – Assembly

#### VIII. *Service Routines*

- A. GIMCPTS
- B. SMPPTS Expanded Member
- C. SMPPTS Compressed Member
  - Lab #15 – GIMCPTS Service Routine Lab
- D. GIMDTS
- E. GIMUNZIP
- F. GIMXSID
- G. GIMXSID Report
- H. GIMZIP
- I. GIMXTRX
  - Lab #16 – GIMXTRX Service Routine Lab
- J. GIMGTPKG
- K. GIMIAP (GENERATE)