



COURSE ABSTRACT

COURSE CODE

» MGRS-SEIM-2021

APPLICABLE VERSIONS

» Not Applicable

DELIVERY METHOD

» Instructor-led Training (ILT)

COURSE DURATION

» 4 Days

PREREQUISITES

» Attendees must be able to use TSO/ISPF, write JCL and run batch jobs, as well as having a clear understanding of the z/OS environment

RECOMMENDED TRAININGS

» NA

Course Overview

The course is developed and delivered by © RSM Technology.

An absolutely essential course for all z/OS Systems Programmers, this four-day course is a complete introduction to the use of SMP/E for installing new software and applying changes to existing software (PTFs, APARs, etc.) for the z/OS environment.

All the important aspects of using SMP/E are covered, including a detailed explanation of what happens 'under the covers'.

The course contains valuable and extensive hands-on exercises that demonstrate all the major aspects of using SMP/E to install products and apply maintenance

Target Audience

Systems Programmers responsible for using SMP/E to install products and service in the z/OS environment.

Learner Objectives

- » Explain what SMP/E is and how it works and describe the SMP/E installation process
- » Install products & service (PTFs & APARs) in a z/OS environment (including related products such as CICS, Db2, etc.)
- » Identify and correct common SMP/E installation problems
- » Understand the major configuration and control options available in SMP/E
- » Discuss the various product and service delivery options available from IBM (including ServerPac, CBPDO, ESO and RSU)
- » Interpret the output produced during SMP/E processing
- » Resolve maintenance conflicts using appropriate SMP/E reports
- » Correctly handle missing prerequisite, requisite, and conditional requisite conditions
- » Resolve error holds using both automatic and manual procedures
- » Correctly install products and service in a cross-zone environment



BMC Mainframe: SMP/E for Installation & Maintenance

COURSE ABSTRACT

COURSE ACTIVITIES

- » Classroom Presentations
- » Demonstration


BMC MAINFRAME INFRASTRUCTURE AND PLATFORMS LEARNING PATH

- » <https://www.bmc.com/education/courses/find-courses.html#filter/%7B%22type%22%3A%22edu-specific-types-159150236%22%7D>

CERTIFICATION PATHS

- » This course is not part of a BMC Certification Path.

DISCOUNT OPTIONS

- » Have multiple students? Contact us to discuss hosting a private class for your organization
- » [Contact us for additional information](#) 

Course Modules

SMP/E Overview

- » What is 'System Modification Program Extended'?
- » What makes a product?
- » SMP/E elements
- » How products are packaged
- » System modifications
- » SMP/E database
- » Receiving a SYSMOD
- » Applying, accepting and restoring a SYSMOD
- » System Generation
- » Consolidated Software Inventory
- » CSI configuration option
- » Invoking SMP/E

RECEIVE Processing

- » The RECEIVE process
- » Modification Control Statements
- » MCS: header statement functions, software environment statement
- » The Global Zone definition entry
- » GZONE entry example
- » Global Zone options entry
- » options entry example

- » Global Zone utility entry
- » Utility entry example
- » SMP/E allocation
- » Global Zone DDDEF entry
- » DDDEF entry example
- » Review of Global Zone entries
- » Creating Global Zone entries – UCLIN
- » Relative file packaged tapes
- » Receive processing
- » Global Zone sysmod entry example
- » Exception sysmods
- » Held sysmod entry example
- » Holddata example
- » tTe RECEIVE command
- » Sysmod entry with SOURCEID example
- » REPORT SOURCEID output examples
- » SMP/E dialogs primary option menu & query selection menus

APPLY Processing

- » IProduct function & installation methods
- » Target Zone definition entry
- » TZONE entry example
- » Target Zone DDDEF entry
- » Target Zone DDDEF entry example

- » Target Zone DDDEF PATH entry
- » Target Zone DDDEF PATH entry example
- » MAC, SRC, and MOD element MCS
- » Data Element MCS
- » Program Element MCS
- » Identifying the target system structure
- » How JCLIN processing works
- » JCLIN processing example
- » JCLIN report example
- » JCLIN - MAC and ASSEM entries
- » JCLIN - MOD and LMOD entries
- » JCLIN - DLIB entries
- » Invoking JCLIN
- » The save control dataset
- » Determining target libraries
- » Apply processing
- » Concatenating macro libraries for assemblies
- » SYSLIB DDDEF example
- » The APPLY command
- » Target Zone SYSMOD entry example
- » Element service level
- » Target Zone MAC and SRC element entries
- » Target Zone MOD and DATA element entries

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BMC Mainframe: SMP/E for Installation & Maintenance

COURSE ABSTRACT

- » Base and dependent functions revisited
- » Replacing an existing product
- » Sysmod installation via the SMP/E dialogs
- » SMP/E dialogs - sysmod management options

ACCEPT Processing

- » Function installation methods
- » Distribution Zone definition entry
- » DZONE entry example
- » Distribution Zone DDDEF entries
- » Distribution Zone DDDEF entry example
- » ACCEPT processing
- » Concatenating macro libraries for assemblies
- » The ACCEPT command
- » Distribution Zone SYSMOD entry example
- » Distribution Zone MAC and SRC element entries
- » Distribution Zone MOD and DATA element entries
- » Sysmod installation via the SMP/E dialogs
- » SMP/E dialogs - sysmod management options

Product Maintenance

- » Product maintenance (service)
- » product maintenance sysmods
- » product maintenance sysmod naming convention
- » product maintenance ++VER statement
- » Updating MAC and SRC elements

- » Updating MOD (and LMOD) elements
- » Sysmod relationships
- » The prerequisite relationship
- » The requisite relationship
- » The supersede relationship
- » The negative prerequisite relationship
- » TZONE sysmod entries – examples
- » Related APPLY command parameters
- » Element service level
- » Tracking the service level of an element
- » Element entries - service level
- » Exception sysmods
- » Resolving error holds
- » Resolving system holds
- » The RELEASE MCS statement
- » Maintenance exposure
- » The REPORT ERROR SYSMODS command
- » Sysmod regression
- » Sysmod construction rules
- » Managing regression
- » Restore processing
- » Concatenating macro libraries for assemblies
- » The RESTORE command
- » Sysmod relationships and restore
- » Reject processing
- » The REJECT command

Additional SMP/E Features

- » The conditional requisite relationship
- » The REPORT CROSSZONE command

- » Cross product 'borrowing' - the problem, the solution
- » Cross zone 'borrowing' - the problem, the solution
- » Callable services support
- » Processing SYSLIB in JCLIN
- » CALLIBS in LMOD element entries
- » Installing LMODs that use CALLIBS
- » The zone management commands
- » Installing SYSGEN and SMP/E products
- » The GENERATE command
- » The CLEANUP command
- » Descriptive MCS statements
- » Product and feature entries

Installing Products and Service

- » Reporting problems to the vendor
- » Preparing for installation
- » Installing maintenance
- » Product delivery mechanisms used by IBM
- » CustomPac service
- » The Recommended Service Upgrade
- » ShopzSeries
- » PSP buckets
- » HOLD FIXCAT
- » Fix Categories
- » Receiving FIXCAT HOLDS
- » APPLY / ACCEPT FIXCAT operand
- » REPORT MISSINGFIX command