

Mainframe Data Storage Management

Course Summary

Description

This course covers storage management in general, then specifically addresses mainframe storage management. The planning, configuration and implementation of IBM's DFSMS and associated products DFSMSHsm and DFSMSdss are covered in detail. Alternative software products are discussed.

The Mainframe Storage Management Course is customized to the client's storage environments. It is best presented in a combination of classroom and lab facilities. The lab-work is normally accomplished, using copies of live data, on a test or other non-production LPAR to ensure that Production processes are not interrupted and data integrity is protected.

Objectives

At the end of this course, students will be able to:

- Design, configure and implement a DFSMS environment specific to their corporation's requirements
- Design, configure and implement backup and recovery processes specific the their corporation's requirements

Topics

- A brief history of data storage management
- Why DFSMS was developed
- Planning for an integrated mainframe storage management implementation
- Implementing DFSMS
- DFSMS Constructs
- DFSMS ACS Routines
- Testing and Activating DFSMS
- Implementing DFSMSHsm
- DFSMSHsm PARMs and processes
- Integrating DFSMS, DFSMSHsm and DFSMSdss
- Alternative software products

Audience

- Mainframe Storage Managers and technical support staff
- IT management and executives and staff involved in storage management of other processing platforms may obtain significant benefit from the first day

Prerequisites

An general understanding of computing and processing and experience with TSO/ISPF

Duration

4.5 to 5 days

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Course Outline

I. Storage Management

- A. A brief history of data storage management
- B. Current data storage hardware storage management software alternatives
- C. Concepts of data storage management (applicable to all processing platforms)
- D. Disaster Recovery and Business Continuity
- E. Offsite and onsite storage alternatives
- F. Why DFSMS was developed
- G. The differences between sms, SMS, DFSMS, DFSMSHsm and other storage management products

II. DFSMS

- A. What DFSMS is, and more importantly what DFSMS isn't
- B. Designing a DFSMS environment
- C. Developing a DFSMS implementation plan
- D. DFSMS' components
- E. Defining the Base Configuration
- F. Logically and physically defining DFSMS Constructs
- G. Coding DFSMS ACS Routines
- H. Testing DFSMS Constructs and ACS Routines
- I. Activating DFSMS
- J. Planning changes to the current DFSMS configuration
- K. Changing the current DFSMS configuration
- L. Backing out changes to DFSMS
- M. Defining and managing the co-existence of DFSMS-managed and non-DFSMS-managed storage environments

III. DFSMSHsm

- A. DFSMS and DFSMSHsm, how they work together
- B. DFSMSHsm parameters
- C. Defining, configuring and implementing DFSMSHsm in single and multi-processor environments

IV. DFSMSdss

- A. Introduction to DFSMSdss
- B. DFSMS, DFSMSHsm and DFSMSdss functioning within a coordinated Storage Management environment

V. Problem Investigation, Determination and Resolution

VI. Alternatives to DFSMS, DFSMSHsm and DFSMSdss

VII. Planning for the future of storage management