

Duration: 1 day

Course Number: ISI-ZOS-01

Description

This class introduces the newcomer to the world of z/OS. After explaining the organization of mainframe hardware, it examines how work is performed and how programs run in the z/OS environment. Concepts, terminology and acronyms associated with z/OS, OS/390 and MVS/ESA are explained, as is the relationship of z/OS to the world of PCs, and Unix. The student will be introduced to the features and functions commonly used in z/OS, including:

- The purpose of z/OS
- The operating system structure
- Virtual storage and paging
- Disk, tape and dataset organization
- TSO
- JCL
- Related software products

The structure and features of JES2 are also presented, including:

- The purpose of JES2
- Job flow in JES2
- Job and report classes

The impact of SMS on z/OS processing is detailed by reviewing its effect on a typical dataset during its life cycle. The benefits of SMS are presented, as well as the impact of SMS on z/OS JCL.

This course is a prerequisite for all z/OS courses.

Audience

Programmer, analysts, technical support personnel, operators and managers working in a z/OS environment.

Prerequisites

A basic understanding of data processing concepts from previous experience (any vendor) or self-study.

Course Agenda

IBM Mainframe Hardware

- CPU
- Memory
- Disk
- Tape
- I/O Architecture
- Network Architecture
- PR/SM
- Parallel Sysplex

Operating Systems

- Evolution of z/OS
- z/OS Functional Architecture
- Other Operating Systems

z/OS Memory and Task Management

- Virtual Memory
- Task Management

z/OS Job Management

- Programs
- JCL
- Job Entry Subsystems (JES2)
 - Purpose
 - Job Flow
 - Initiators and Job Classes
 - Output Classes
 - Spool Dataset
 - Multi-Access Spool
 - Remote Job Entry
 - Network Job Entry

Course Agenda (continued)

z/OS Data Management

- File Organizations
- Disk Dataset Organization
- Tape Dataset Organization
- Catalogs
- Record Format and Record Blocking
- Generation Data Groups
- System Managed Storage (SMS)
 - SMS Classes
 - SMS Dataset Life Cycle

Related Software Products

- TSO
- ISPF
- SDSF
- Book Manager
- ISMF
- Z/OS Communications Server
- TCP/IP
- CICS
- DB2
- IMS
- HTTP Server
- Websphere
- Workload Scheduler / CA-7 / CA-Scheduler
- CA-11
- DFSMSrmm / CA-1
- DFSMShsm
- RACF / CA-ACF2
- Endeavor
- z/OS UNIX