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z/OS System Programmer Fundamentals  
Information

**Length:** 32.0 Hours  
**Ref:** ES40G □  
**Delivery method:** Classroom  
**Price:** AUD

Overview

This course is designed to describe the basic components that apply to all z/OS systems. It includes high level concepts that apply to the z/OS hardware platform and the z/OS software. It then provides a more detailed analysis, description and lab activities that can be applied to the system programmer role to maintain z/OS systems.

Discussion activities include: The POR, IPL process, JES implementation and operating environment, VTAM environment for TSO, ISPF, SNA and TCP/IP networking, RACF, ISPF/PDF and UNIX System Services. It defines the classic approach to data management in a z/OS system. It identifies various software products and utilities used to define, maintain, and manage catalogs and data sets in the z/OS environment. It also discusses Parmlib usage and requirements for system initialization and operation that include: System symbolics, WLM, SFM, RMF and system logger. Both single system and multi-system sysplex usage is identified. z/OS install, upgrade options, maintenance using SMP/E and I/O configuration requirements using HCD is listed and described.

Public

This intermediate class is intended for new System Programmers and System Administrators, who require an overall understanding of the z/OS platform, z/OS components, data management, and installation and maintenance activities used in z/OS systems.

Prerequisites

You should:

- Have z/OS installation experience **or** have attended *z/OS Installation (ES41A)*
- Be familiar with end user activities on MVS, including knowledge of JCL, IDCAMS, the MVS address space structure, **and** the concept of batch scheduling using JES initiators

Topics

Day 1

- Welcome
- Unit 1 - What makes up a z/OS system?
- Exercise 1- Introduction to z/OS setup
- Unit 2 - System boot: POR and IPL
- Exercise 2 - Complete the IPL: Start JES, start networking
- Unit 3 - Processing user work with z/OS
- Exercise 3 - LOGON into TSO and create a new user profile

## **Day 2**

- Unit 4 - Networking, z/OS communication server
- Exercise 4 - Data administration
- Unit 5 - What else is needed for end user access to the system?
- Exercise 5 - Automate startup and monitor the system

## **Day 3**

- Unit 6 - Data management
- Exercise 6 - System logger
- Unit 7 - A closer look at IPL: IPLPARM, SYS1.PARMLIB, SYS1.PROCLIB
- Exercise 7- Define a string of DASD and ACTIVATE dynamically

## **Day 4**

- Unit 8 - System management: WLM, SMF, RMF, and system logger
- Exercise 8 - Install and maintain a user function
- Unit 9 - Hardware configuration definition
- Unit 10 - Software maintenance: SMP/E
- Unit 11 - Change management: ServerPac and other IBM services