



z/OS System Programmer Fundamentals

Duration: 5 Days Course Code: ES40G Delivery Method: Company Event

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.

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.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

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.

Objectives:

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Describe the basics of z/OS architecture	■ IDCAMS utility
· ·	•
Identify basic components of a z/OS system	■ DFSMS: DFSMSdss, DFSMShsm
•	•
Discuss what you have learned about LPARs	■ Data, storage, and management classes
 Control of the control of the control	•
Describe maintenance principles	Define the hierarchical data management
 Control of the control of the control	■ HFS file system
Identify and list the POR process	•
 Control of the control of the control	zFS file system
Describe the IPL process	•
 Control of the control of the control	Define load-parameters for IPL
Identify the basic address spaces	•
 Control of the control of the control	Define symbols for use in system initialization
Describe how to shut down z/OS	•
 Control of the control of the control	■ Define a configuration for system initialization
Implement a basic JES2 batch environment	

Identify how work can be started in z/OS and it's relationship to the job entry subsystem	Define a library for procedures
•	•
Describe how JES2 prepares and executes work in z/OS	Identify the sysplex resources required to run WLM
 Control of the control of the control	•
Explain JES2 start options	List the main components that comprise a WLM service definition for a system/sysplex
•	 Control of the control of the control
Describe JES2 parameters that can be customized to support z/OS batch	Describe the function of WLM service definition parameters such as workloads, service goals, periods, and WLM subsystems
•	•
Identify how communications and control of JES2 can be done using the operator commands and SDSF	Describe how SMF data set are created and used
•	Explain SMF record types and how they are used
Describe JES3 configuration and job processing phases	Explain Sivil Tecord types and now they are used
•	Identify the three RMF monitor types
Identify JES3 start options	- Identify the times from Memor types
•	Describe how the RMF monitor is used for reporting purposes
Describe the two networking schemes in the z/OS environment: SNA and IP	
•	Identify System Logger components and usage for:
Identify SNA networking resources	Sysplex configuration and CF logstreams
•	•
Explain how SNA sessions are established	Single system and DASD-only logstreams
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Identify two key members used for TCAS startup Identify the batch and ISPF interfaces to SMP/E Name the components of ISPF Install a user function using RECEIVE, APPLY, and ACCEPT Describe the general layout of ISPF/PDF panels Explain how to remove a SYSMOD with RESTORE Describe how UNIX System Services are used in z/OS Describe the installation options available to install z/OS Describe briefly the UNIX Shell and utilities and how they are ■ Use the attributes of z/OS elements and features to identify the contents of a z/OS product accessed Describe the application services provided in UNIX System Describe the contents of the ServerPac offering and important install Services documentation sources Describe how security is handled in UNIX System Services List the main steps in the ServerPac build process Describe the classical z/OS data management Describe hardware and software prerequisites for performing a ServerPac installation in: ■ DASD init: VTOC, VTOC index The driving system ■ ICF catalog creation: BCS, VVDS The target system MCAT/UCAT

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

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ServerPac and other IBM services

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931 info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK