

IBM System z Parallel Sysplex Operations

Duration: 3 Days Course Code: ES73G

Overview:

This course is designed so that students can learn how z/OS systems operate in a Parallel Sysplex environment through discussion topics and hands-on lab exercises.

Students learn problem determination skills, practice enhanced sysplex operations, including management of the coupling facility (CF), and use recovery capabilities provided by the System z servers.

The course consists of six units and 12 hands-on lab exercises.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

The audience includes operations personnel and technical staff who are directly involved in the installation, operation, systems support, and software support of their Parallel Sysplex environment.

Objectives:

■ **After this course participants should be able to:**

- Identify the difference between a base and a Parallel Sysplex
- Describe the hardware components of a Parallel Sysplex
- Describe the software components of a Parallel Sysplex
- List sysplex couple data sets and define their purpose
- Identify and describe sysplex commands to display signaling and couple data set usage
- Identify all coupling facility links, speeds, and connectivity options for System z servers
- List the various structure types and how they are used
- Identify potential users of a CF
- Describe the CFRM policy and required parameters within the policy
- Describe how the CF is used to enable resource and data sharing
- Use commands to display and change the operational status of a CF
- Use the various z/OS commands to determine the current status of sysplex members
- Remove a system from the sysplex
- Use z/OS, JES2 commands, and CFRM polices, if required, to remove structures, CF links, and CFs
- Describe and identify various sysplex CF configurations, including high-availability CF configurations
- Describe the types of failures and recoveries that can be automated with SFM
- Start and stop SFM policies and identify SFM actions for each system
- Identify new SFM support at z/OS 1.8 and z/OS 1.9
- Determine the status and parameters of any sysplex console
- Use z/OS commands to display console attributes, change console attributes, and route messages to any sysplex member
- Describe the use and purpose of console switching groups
- Identify console updates that apply to z/OS 1.8 and z/OS 1.10
- Define why time synchronization is required in a sysplex
- Describe time synchronization options in a sysplex
- Describe Sysplex Timer (9037) configurations
- Define server time protocol terminology and configurations:
- Mixed Coordinated Timing Network

- Describe structure and connector attributes
- Use z/OS commands to resolve a problem structure status
- Use z/OS commands to remove, add sysplex primary or alternate couple data sets, and modify CDS settings
- Describe procedures for moving off a coupling facility for maintenance or other reasons
- Describe the operator options to relocate structures between CFs

- STP-only Coordinated Timing Network
- Identify three major phases of the IPL process
- Describe what happens during each phase of the IPL process
- Identify and resolve IPL-related problems
- Perform a successful IPL of the z/OS system

Prerequisites:

You should have an understanding of:

- Basic data processing and I/O concepts and terminology
- z/OS console operation, including display of device, job, and console status

Testing and Certification

None

Follow-on-Courses:

None

Content:

Day 1

- (00:30) Welcome
- (02:30) Unit 1: Sysplex overview
- (01:00) Unit 2: Coupling Facility
- (03:00) Supporting labs

Day 2

- (00:30) Review
- (03:00) Unit 3: Sysplex operation and recovery
- (03:30) Supporting labs

Day 3

- (02:30) Review and labs
- (01:00) Unit 4: Sysplex Failure Manager and console operations
- (01:00) Unit 5: Sysplex timer and Server Time Protocol operation
- (00:45) Unit 6: z/OS IPL flow
- (02:00) Supporting labs

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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