

## DB2 10 for z/OS System Administration

**Duration: 5 Days    Course Code: CV851G**

### Overview:

The course is updated for DB2 10 for z/OS. This course is the classroom delivered version of the Instructor led Online course DB2 10 for z/OS System Administration - ILO (3V851).

Administrators of DB2 10 for z/OS can acquire a view of the architecture and fundamental processes required to manage a DB2 10 for z/OS subsystem. Engage in lectures and hands-on labs to gain experience to:

- Relate the z/OS IPL process to a DB2 subsystem
- Explain effects of stopping and starting DB2
- Explain how DB2 sets and use Integrated Catalog Facility (ICF) catalog names
- The use of DSN command processor running in batch and foreground
- Use views to minimize your ability to see into the DB2 catalog
- See how the catalog (through grant activity) controls access to data
- Search the catalog for problem situations
- Use the catalog and DB2 utilities to determine data recovery requirements
- Describe Internal Resource Lock Manager (IRLM) in a DB2 environment
- Implement DB2 and Resource Access Control Facility (RACF) security
- Describe DB2 program flow for all environments
- Display normal and problem threads and database status
- See how the SQL Processor Using File Input (SPUFI) AUTOCOMMIT option defers the COMMIT/ROLLBACK decision
- Interpret lock displays
- Identify and cancel particular threads
- Describe available DB2 utilities to manage system and user page sets

### Target Audience:

This intermediate course is for system administrators, database administrators, and other technical individuals, who manage and implement DB2 10 for z/OS.

### Objectives:

- Start and stop the DB2 subsystem
- Estimate lock storage required for the IRLM
- Explain the allocation CLIST used at logon for DB2 data sets
- Invoke and use DB2 TSO Facilities
- Use Set SYSPARM command
- Use the DB2 Catalog to monitor authorizations
- Locate the Command recognition character for the DB2 subsystem
- Increase the size of the Active Log data sets
- Query the system log to gain knowledge about the IPL process and information in the system log when DB2 is initialized or stopped
- Explain DB2 Logging
- Explore DB2 Address Spaces information
- Use SET LOG SUSPEND and SET LOG RESUME
- Select the DB2 functions that best satisfy your site requirements
- Use DSNJU004 to Print Log Map

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- Explain the use of RACF for DB2 connection security
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- Explain the use of Roles and Trusted Context
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- Implement security procedures for a DB2 environment
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- Describe the components and address space structure of a DB2 subsystem
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- Explain DB2 Program Flow for all environments
- 
- Explain parameter settings for the IRLM
- 
- Display storage values for the IRLMPROC
- 
- Dynamically change IRLM storage
- Interpret the output of Print Log Map
- 
- Use DSNJU003 to rename DB2 data sets
- 
- Plan for recovery of a BSDS failure
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- Monitor and control DB2
- 
- Explain transaction flow in IMS and CICS
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- Describe the CICS and DB2 environment
- 
- Explain the difference between JDBC and SQLJ

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## Prerequisites:

You should have an understanding of the objects (tables, indexes, databases, and so forth) used in DB2 systems, and of how those objects are created, managed, and recovered.

These skills can be developed by taking the DB2 Database Administration Workshop (CF83) / DB2 9 for z/OS Database Administration Workshop Part 1 (CV830) or through equivalent experience. You should also have a working knowledge of SQL. The DB2 SQL Workshop (CF12) / SQL Workshop - Instructor Led Online (3E120) provides that.

In addition, you should have:

- At least one year as a z/OS systems programmer or equivalent experience
  - Or, one year working with DB2 on the mainframe as a DBA on the mainframe or equivalent experience
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## Content:

- Explain the principles of:
    - IPLing z/OS
    - Protect DB2 data sets when DB2 is up or down
    - Describe DB2 program execution
    - Describe TSO facilities
    - Provide appropriate authorization for your user community
    - Explain the basic algorithms of the DB2 logging facility
    - Categorize and discuss DB2 utilities
    - Describe the different types of application recovery
    - Describe the two-phase commit process
    - Outline a CICS connection to DB2
    - Monitor and control DB2
    - Describe the DB2 restart process following both normal and abnormal terminations
    - Integrate IMS transactions into the DB2 environment
    - Describe the use of DB2 for z/OS enterprise servers in a multitier environment
  - TSO/E LOGON
  - Allocation CLIST
  - Control of DB2
  - START DB2 process
  - DSNZPARM member
  - DB2 address space structure
  - DB2 log
  - Catalog and directory
  - Data sharing feature
  - Connection process
  - Command routing process
  - Program preparation and execution processes
  - Transaction and points of consistency
  - Recognize the important IRLM parameters
  - System security
  - Protect connections to DB2
  - Describe the high-level operation of DB2 security exits
  - DB2 program flow for all environments
  - Explain what a DB2 thread is
  - Explain commit processing
  - Describe connection types
  - DSN
  - CAF
  - IMS
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  - RRSAP
  - Describe the facilities of DB2I
  - Invoke the DSN command processor in various ways
  - Invoke DB2 utilities
  - Describe the QMF environment
  - DB2 authorization
  - Monitor authorization in the DB2 catalog
  - Effectively assign administrative authorities like SYSADM, DBADM, and BINDAGENT
  - Create objects for others
  - Logging
  - Set up and operate your log efficiently
  - Recover from BSDS failures
  - Recover from certain lost log data set situations
  - Explain the use of the log maintenance tools
  - DB2 9 for z/OS utilities
  - Explain how to back up and recover DB2 objects using BACKUP SYSTEM and RESTORE SYSTEM utilities
  - Define high-level qualifier for catalog and directory
  - Rename DB2 data sets
  - Print log map of BSDS
  - Object recovery
  - Perform various health checks to detect damaged data
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- Describe TSO facilities
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- Explain the basic algorithms of the DB2 logging facility
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- Describe the different types of application recovery
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## DB2 and Java environment in a z/OS environment

- TSO/E LOGON
- Allocation CLIST
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- START DB2 process
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- DB2 address space structure
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## (Administrative Task Scheduler)

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- Explain the use of the log maintenance

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### Further Information:

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