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## Db2 12 for z/OS Introduction to System Administration

**Duration: 3 Days**    **Course Code: CV853G**

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### Overview:

This course provides students with an introduction to the skills and knowledge needed to administer a Db2 12 for z/OS system.

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### Target Audience:

This course is intended for z/OS system administrators, database administrators, or other technical individuals who will be managing Db2 12 for z/OS.

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### Objectives:

- After completing this course, students should be able to:
  - Start and stop a Db2 subsystem
  - Use the SET SYSPARM command
  - Access the system log to gather information about the subsystem initialization, operation, or shutdown
  - Describe the components and address space structure of a Db2 subsystem
  - Explain the use of RACF (or another external security program) for Db2 connection security
  - Explain the use of Roles and Trusted Contexts
  - Implement security procedures for a Db2 subsystem
  - Explain Db2 program flow for all environments
  - Explain parameter setting for the IRLM
  - Invoke and utilize Db2 TSO facilities
  - Use the Db2 Catalog to monitor subsystem authorizations
  - Work with the Active Log data sets
  - Explain Db2 logging
  - Use SET LOG SUSPEND and SET LOG RESUME
  - Use DSNJU004 to print log map and interpret the results
  - Use DSNJU003 to rename Db2 data sets
  - Plan for recovery of a BSDS failure
  - Monitor and control a Db2 subsystem
  - Explain transaction flow in IMS and CICS environments (optional)
  - Describe the CICS and DB2 environment (optional)
  - Explain the difference between JDBC and SQLJ
  - And much more
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### Prerequisites:

- Understanding of the objects (such as databases, table spaces, tables, indexes, and so forth) used in a Db2 subsystem
  - Basic knowledge of SQL
  - At least one year as a z/OS systems programmer or equivalent knowledge
- OR
- At least one year as a Db2 for z/OS Database Administrator
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## Content:

Starting Db2 as part of the z/OS IPL process	Utilities	Issuing Db2 commands
Data set allocation and APF authorization	Transaction flow in IMS and CICS (optional)	Basic workload controls
The START DB2 and STOP DB2 commands	Transaction processing	Monitoring and controlling utilities
zParms, DSNTIJUZ, and DSNZPARM	Thread reuse	DISPLAY commands
Address spaces	SIGNON exit	Starting / stopping databases
IRLM and lock storage	CICS - Db2 environment (optional)	Recovery
Db2 components and processes	CICS connections to Db2	Planning for recovery
BSDS and logging	DSNC transaction	Table space recovery
Catalog and directory	IMS - Db2 environment (optional)	Log considerations
Program preparation and execution	IMS-Db2 introduction	DISPLAY and SET LOG commands
Transaction execution	IMS TM	Recovery considerations
Data sharing in the sysplex	IMS/DLI batch environment	System recover/restart
System security	Distributed - Db2 environment	System checkpoints
Protecting Db2 data sets	Distributed attachment	System restart after normal shutdown
Controlling connections to Db2	Location aliases	Page externalization
Db2 authorization exits	DDF profiling	Two-phase commit processing
Trusted context and roles	Block fetch	System restart after system failure
Securing an application server	Db2 REST services	Recovery considerations
Db2 authorization	Logging	Java with Db2 (optional)
Authorizations	The Db2 log	Java
Controlling access for dynamic and static SQL	Log commands	Administrative task scheduler (optional)
Access control authorization exits	Archiving considerations	Overview

Distributed security	BSDS	Routines
Program flow for all environments	Db2 utilities	Scheduling features
Connection types and language interfaces	Categorization	Life cycle
Program flow	DSNJU003 and DSNJU004	Synchronization
TSO and batch environments	BACKUP and RESTORE SYSTEM	Commands
TSO	Operations (monitoring and controlling Db2)	

### Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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