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Document History

Date	Course Version No.	Software Version No.	Develope r / SME	Change Record Remarks
07-July-2005	1.0			Created
26-Oct-2009	2.0D		Padmaja Purandare	Revamped
07-Dec-2009			CLS Team	Review
10-Oct-2010	3.0		Vaishali Kasture	Revamped
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21-June- 2016	5.0		Veena Keshavalu	Revamped post the integration



Course Goals and Non Goals

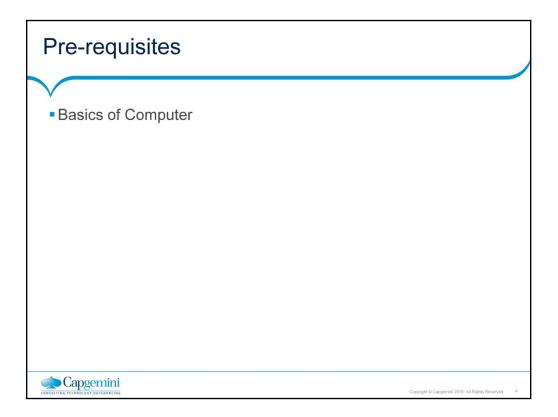
- Course Goals
- Basic understanding of MVS job and data management
- Basic understanding of IBM Mainframe system
- Introduction to Mainframe environment
- Work with basic ISPF commands and dataset utility

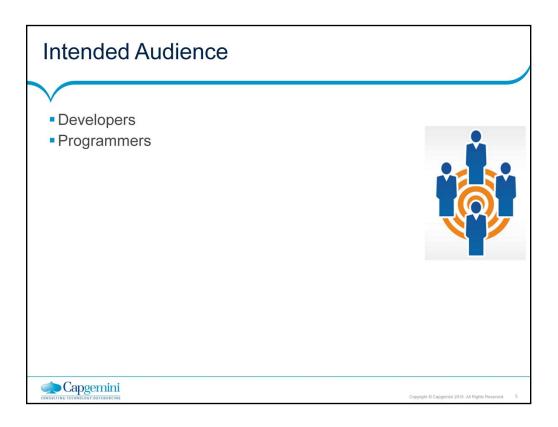


- Course Non Goals
- JCL coding



Multiple Virtual Storage (MVS)





Day Wise Schedule

- Day 1
- Lesson 1: Introduction to OS Concepts and MVS
- Lesson 2: MVS Environment Concepts
- Lesson 3: MVS Evolution
- Day 2
 - Lesson 4: Typical IBM Mainframe Systems
- Lesson 5: MVS Concepts and Terminology
- Lesson 6: MVS Data Management



Day Wise Schedule

- Day 3
- MVS subsystems
- System Generation & Initialization
- Job Management Overview
- Appendix
 - Appendix A Compilation process (Translators / Linkage / Loader)
 - Appendix B Bibliography/References



- Lesson 1: Introduction to OS Concepts and MVS
- 1.1: Introduction to MVS
- 1.2: OS Concepts
- 1.3: Position of OS in system
- 1.4: OS Functions
- Lesson 2: MVS Environment Concepts
- 2.1: Data Processing Concepts
- 2.2: Command Processing Concepts
- 2.3: Characteristics of Mainframe OS
 - 2.3.1: Batch Processing
 - 2.3.2: Multiprogramming
 - 2.3.3: Time Sharing
 - 2.3.4: Virtual Storage
 - 2.3.5: Spooling



- Lesson 3: MVS Evolution
- 3.1: Family of IBM
- 3.2: MVS Evolution
 - 3.2.1: MFT
 - 3.2.2: MVT
 - 3.2.3: I/O Management



- Lesson 4: Typical IBM Systems
 - 4.1: Typical IBM M/F configuration
 - 4.2: Processors
 - 4.2.1: Multiprocessing Concepts
 - 4.3: Cache Memory
 - 4.4: Channels
 - 4.5: I/O Devices
 - 4.5.1: Unit Record Devices
 - 4.5.2: Magnetic Tape
 - 4.5.3: DASD Direct Access Storage Device
- 4.6: Data Communication Network
 - 4.6.1: Data Communication Equipment



- Lesson 5: MVS Concepts and Terminology
- 5.1: MVS Concepts Overview
- 5.2: Virtual Storage
- 5.4: Multiprocessing
- 5.5: Address Spaces
- 5.6: MVS address space
- 5.7: Paging
- 5.8: Swapping
- 5.9: Virtual Storage Layout



- Lesson 6: Data Management in MVS
- 6.1: Types of Data
- 6.2: Dataset Organization
 - 6.2.1: Non VSAM
 - 6.2.2: VSAM
 - 6.2.3: Features of Dataset Organization
 - 6.2.4: Dataset Naming Conventions
- 6.3: Dataset Tracking Mechanism
- 6.4: Sysplex
- 6.5: Dataset Management
- 6.6: Dataset Processing



- Lesson 7: Tools Overview
- 7.1: Subsystems
- 7.2: Working with TSO/ISPF

Lesson 8: System Generation & Initialization

- 8.1: System Generation 8.2: System Initialization
- 8.3: System defined datasets
- 8.4: ISRDDN diagnostic utility
- Appendices



- Lesson 9: Job Management Overview
- 9.1: Concept of Job, step, JCL & JES
- 9.2: Job Management
- 9.3: Stages of JOB
- 9.4: Job Scheduling
- 9.5: Job Execution
- 9.6: Dataset Allocation and Job Step Execution
- 9.7: Using SDSF



References

- Books:
- The MVS JCL Primer; by Saba Zamir, Chander Ranade
- IBM Mainframe Handbook
- URLs:
- http://hansen-family.com/mvs/MVS%20Commands.htm
- http://ibm.com





