

Career Education for IBM Software (CEIS) IBM Tivoli Storage Management Solution 5.5v & 6.1v

Curriculum Outline:

1st Week IT Technology Concepts & Basics

DAY1: Architecture (Understanding Architecture & terms like Standalone, Client-Server, Windows Workgroup, Active Directory Domain & Domain Naming System (DNS)/Fully Qualified Domain Name)

DAY2: Networking (Understanding Topologies LAN, MAN & WAN along with Communication Protocols overview like TCP/IP, UDP, SNMP, FTP, Telnet, RPC etc)

DAY3: Introduction to Types of Solutions (Understanding Principal Brands in Markets like IBM, Microsoft, Symantec, HP, CA, Oracle, McAfee etc & their Solution Overview under heading like Messaging Soln, Storage Mgmt, Infrastructure Mgmt, DAY 3 RDBMS & Data Warehousing Soln, OS/Application Monitoring, Network Monitoring/Mgmt, Antivirus etc)

DAY4: Introduction to Types of OS & its various flavors like AIX, Windows, HP-UX, Redhat Linux, SUSE Linux etc)

DAY 5: Introduction & Overview to IBM Tivoli Portfolio of products.

2nd Week Storage Fundamentals & Concepts

DAY 1: Introduction to Storage Methodology like DAS, NAS, SAN. Their Advantages & Disadvantages)

DAY 2: Understanding Types of Strategies of Backup (Full, Incremental, Differential, Delta (Sub-file) & Progressive)

DAY3: Understanding Storage Devices (Library, Autoloader, Drives, SDLT, DLT, DAT, 8mm etc) & Types of Generation for DAY 3 Drives (LTO1, LTO2, LTO3)

DAY 4 & 5: Understanding Sizing of Storage Mgmt Soln (What-- How Much-- Where to backup, What is Total Data Targeted, Its Rate of Change. Online/Offline etc) Checking Compatibility on H/W & S/W front

CEIS Tivoli Storage Management Class Overview

Weeks 3 – 5

Book One – IBM Tivoli Storage Manager 5.5v Implementation and Basic Administration Part1

Book One covers the following topics with lecture and lab exercises:

- o Overview and concepts of IBM Tivoli Storage Manager
- o Installation of the IBM Tivoli Storage Manager components
- o How to use the administrative interfaces
- o Introduction to working with storage media devices
- o How to manage storage pools and storage pool volumes
- o How to define policy management

- o Customization of the Tivoli storage manager database and recovery log
- o How to configure backup-archive clients
- o How to backup and restore, archive and retrieve client data
- o Database and storage pool protection
- o How to automate operations
- o How to monitor events and review the event log
- o Introduction to additional TSM products

During week 5, the students will review the Administration Center tutorials and the RedBook: IBM Tivoli Storage Management Concepts SG24-4877-04.

Weeks 6 - 7

Book Two – Disaster Recovery Management (DRM) with IBM Tivoli Storage Manager 5.5v

Book Two covers the following topics with lecture and lab exercises:

Part One – Data Protection with Disaster Recovery Manager

- o Overview of IBM Tivoli Disaster Recovery Manager concepts
- o How to setting up and customizing IBM Tivoli Disaster Recovery Manager
- o Management of Disaster Recovery Manager media
- o How to use Using Removable Media for data backup and recovery
- o How to use server-to-server virtual volumes for data backup and recovery
- o The concepts and practices of Bare Machine Recovery
- o How to automate system recovery

Part Two – Data Protection for Desktop

- o How to use Continuous Data Protection for Files

During week 7, the students will review the Continuous Data Protection for Files Interactive Tutorials and the RedPaper:

Weeks 8 - 10

Book Three – IBM Tivoli Storage Manager 5.5v Implementation & Administration-Part2

Book Three covers the following topics with lecture, group exercises, and lab exercises:

- o Performance tuning of the Database and recovery log
- o Performance tuning of storage pools
- o How to recover the TSM database and primary storage pool
- o How to implement Macros and Scripts
- o Determination of network configuration and Tivoli Storage Manager performance issues
- o Preparation of reports
- o Concepts of problem determination
- o Backup and restore methodology
- o How to use enterprise administration
- o Configuration of server-to-server virtual volumes
- o Integration of additional TSM products

During week 10, the students will review the Certification Study Guide: IBM Tivoli Storage Manager V5.5, RedBook: Deployment Guide Series: IBM Tivoli Storage Manager V5.5.

Weeks 11 – 12

Book Four – IBM Tivoli Storage Manager (TSM) 6.1v

Book Four covers the following topics with lecture, group exercises, and lab exercises:

- Introduction to TSM 6.1v
- New Features add-ons in TSM 6.1v & Difference between TSM 5.5v Vs TSM 6.1v
- Installing & Configuring TSM 6.1v
- Managing New TSM 6.1 Database DB2.
- Upgrading - Migration Strategies & Operations to migrate from TSM 5.5v to TSM 6.1v.
- Exploring De-duplication Data feature for TSM 6.1v

Note: TSM 5.5 & TSM 6.1 conceptually & practically is the same product with feature upgrade & updates.