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MAINFRAME COURSES

z/OS Curriculum

- z/OS Series
 - z/OS Concepts
 - Managing and Processing z/OS Data
 - Initializing and Terminating the z/OS System
 - Displaying z/OS System Activity
 - Advanced z/OS Monitoring Facilities
 - Identifying z/OS System Problems
 - Removing Tasks from the z/OS System
 - Techniques for Handling General z/OS Problems
 - z/OS – Advanced – Tips and Tricks
 - z/Architecture – Processing Workloads
 - z/Architecture – Memory, Address Spaces and Virtual Storage
- z/OS Console Simulator Series
 - z/OS MVS Command Simulations
 - JES2 Command Simulations
 - VTAM Command Simulations
 - CICS Command Simulations
 - z/OS System Shutdown and IPL Simulations
- Installing and Managing z/OS Software Series
 - Introduction to SMP/E

IBM Z Mainframe Hardware

- Introduction to the IBM Z Systems z17 and LinuxONE 5
- Hardware Models – z17
- Hardware Models – z16
- Hardware Models – z15
- Hardware Models – z14

z/OS Management Facility Curriculum

- Introduction and Basics
- Working with z/OSMF Tasks
- Configuring and Administering z/OSMF

IBM Explorer for z/OS Curriculum

- IBM Explorer for z/OS

Job Control Language (JCL) Curriculum z/OS

- Introduction to z/OS JCL
- JCL Coding Basics – JOB and EXEC Statements
- JCL Coding Basics – DD Statements and Data Sets
- JCL Coding Basics – DD Statements and SYSOUT
- Advanced JCL Data Set Use
- Controlling Job and Step Processing
- Working with Procedures and Symbols
- Running and Debugging JCL
- Advanced – Tips and Tricks

IBM Mainframe Performance and Capacity Management

- Z Performance – Introduction to Mainframe Performance
- Z Performance – z/OS I/O Performance and Capacity Planning
- Z Performance – z/OS Performance Tools and Software Pricing
- Z Performance – z/OS Workload Manager

Zowe Curriculum

- Zowe Fundamentals

JES Curriculum

- Basics
- Understanding JES2 Processing
- Using JES2 Commands
- Monitoring Jobs, Initiators, and Printers Using JES2 Commands
- Managing Batch Processing in a JES2 Environment
- Controlling JES2 Initiators and Printers
- Resolving Network and Spool Space Problems
- Managing JES2 Checkpoints
- Identifying and Resolving JES2 System Problems
- Advanced – Tips and Tricks
- Command Simulations
- Advanced – Tips and Tricks

Mainframe Application Performance Curriculum

- Introduction to Sampling Performance Tools

z/OS Connect

- IBM z/OS Connect 3.0

Blockchain Curriculum

- Blockchain Technologies

DevOps and Agile Curriculum

- Introduction to DevOps in the Workplace
- Introduction to Agile

Managed File Transfer Curriculum

- Managed File Transfer for Operations

TSO/ISPF for z/OS Curriculum z/OS

- TSO and ISPF Basics
- Configuring ISPF for General Use
- Managing Data Files and Definitions with ISPF/PDF
- Displaying and Manipulating Data in View and Edit Mode
- Using Edit Primary Commands
- Advanced ISPF Data Editing Techniques
- Advanced – Tips and Tricks – TSO

Cryptography Curriculum

- Cryptography
- ▶ [Implementing Pervasive Encryption on z/OS – Expert Videos](#)

IBM Environment Introduction Curriculum z/OS

- Introduction to IBM Enterprise Environment
- z/OS Systems Programming Fundamentals
- IBM Development Environment
- ▶ [Tips to Advance Your Systems Programmer Career – Expert Videos](#)

IBM Z System Automation Curriculum

- Introduction to IBM Z System Automation
- IBM System Automation: Planning, Installation, and Customization
- IBM System Automation: Operations
- Automation Definitions Introduction and Workshop
- Advanced Automation and Reporting

Python Programming Curriculum

- Python on z/OS Fundamentals
- ▶ [Python Scripting for z/OS Systems Programmers – Expert Videos](#)

SDSF Curriculum z/OS

- Introduction and Basic Concepts
- Working with SDSF Data
- Operations
- Job Activity Basics
- Controlling and Managing Jobs
- Advanced Job Management and Monitoring
- Using SDSF to Display and Control Job Output
- Using SDSF to Display and Control Printers
- System Health and Managing JES2 Resources
- Using SDSF to Work with System Information and Devices
- Using SDSF to Perform Advanced System Monitoring
- Advanced – Tips and Tricks

Data Center Storage Management Curriculum z/OS

- Introduction to Storage and Disk Systems
- Understanding Tape Storage
- Networks, Administration, and DASD Management Using ICKDSF
- Managing z/OS Data Using DFSMS Constructs
- Storage and Tape Administration Using DFSMSshm and DFSMSrmm

IBM Mainframe Communications Curriculum z/OS

- Network and Communications Concepts
- Mainframe Network Architecture
- Monitoring and Controlling VTAM
- Monitoring and Controlling TCP/IP
- VTAM Command Simulations

C Programming Curriculum

- C/C++ on z/OS for C Programmers

z/VM Curriculum

- Introduction and Concepts
- System Initialization and Shutdown
- Monitoring and Controlling z/VM Operations
- Managing Guest Operating Systems
- Managing CMS Files
- Identifying and Resolving z/VM Problems

JES3plus Curriculum

- JES3plus Fundamentals
- JES3plus for System Operators
- JES3plus for System Programmers
- JES3plus for Application Programmers

Artificial Intelligence and Data Analytics Curriculum

- Artificial Intelligence and Modern Business
- Big Data and Hadoop
- Data Analytics and Apache Spark

WebSphere Curriculum

- Java and WebSphere Application Server Series
 - Introduction to Java and WebSphere Application Server
 - Introduction to Java and WebSphere Application Server on z/OS
- WebSphere Application Server Liberty on z/OS Series
 - WebSphere Application Server Liberty on z/OS Administration Application Server

IBM MQ Curriculum

- Introduction to IBM MQ
- Operations and Administration
- Operations and Administration for z/OS
- MQ for Application Programmers

Secure Coding Curriculum

- Secure Coding on the Mainframe

Security Curriculum

- Introduction to Mainframe Security Series
 - Introduction to Mainframe Security
- CA ACF2® Series R15
 - Introduction
 - Protecting System Access
 - Protecting Data Integrity
 - Protecting General Resources
 - Defining Environment Controls
 - Maintaining CA ACF2 For Auditors
- RACF Series
 - Introduction
 - Defining and Managing Users
 - Managing RACF Groups and Administrative Authorities
 - Protecting Data Sets Using RACF
 - Protecting General Resources Using RACF
 - RACF and z/OS UNIX
 - Managing Digital Certificates
 - RACF for System Programmers
 - RACF for Auditors
- IBM zSecure Series
 - Fundamentals
 - Introduction to zSecure RACF Administration
 - zSecure RACF Auditing Fundamentals

CICS Transaction Server Curriculum

- CICS TS Operations Series
 - CICS Transaction Server Introduction
 - CICS Explorer Fundamentals
 - Controlling CICS Transaction Server Operations
 - CICS Command Simulation
- CICS TS Programming Series
 - Programming Basics
 - Program Control and Communication
 - Files and Databases
 - Storage and Transient Data
 - Programming for Web Access
 - Using CICS Transaction Gateway
 - Terminal Communications
 - Using SDF II to Maintain CICS TS Maps
 - Programming for Recovery
 - Debugging CICS Programs

COBOL Programming Curriculum

- Basics
- Data and Datafile Definitions
- Manipulating Data
- Advanced
- COBOL IBM Enterprise COBOL 6.3 for z/OS
- Accessing IMS Database from COBOL

Containers Curriculum

- Introduction to Containers, Docker, and Kubernetes
- Container Extensions for z/OS

Quantum Computing Curriculum

- Quantum Computing and Qiskit
- ▶ [Easy Introduction to Quantum Computing – Expert Videos](#)
- ▶ [Installing Qiskit on IBM LinuxONE – Expert Videos](#)

Hardware Management Console Curriculum

- HMC Familiarization and Operation

Assembler Programming Curriculum

- Assembler Introduction
- Assembler Instructions
- Assembler Macros
- Assembler Programming
- Assembler z/OS Advanced
- Assembler Cross Memory Services

IBM Enterprise PL/1 Programming Curriculum

- PL/1 Fundamentals and Data Representation
- PL/1 Program Design Techniques
- PL/1 Accessing Data in Files
- PL/1 Debugging and Advanced Coding

IBM Developer for z/OS

- IBM Developer for z/OS Basics
- Creating and Managing Applications using IDz

Database Curriculum

- Database Series
 - Introduction to Databases and Database Managers
 - Introduction to SQL
 - Advanced SQL
 - Database Manager Resources
 - Database Communications
- Db2 13 Series
 - Introduction to Db2
 - Creating and Maintaining Db2 Programs
 - Building Db2 COBOL Programs
 - Optimizing Db2 Application Performance
- Db2 13 Operations Series
 - Db2 Fundamentals
 - Managing Db2 Operations on z/OS
- Coding Db2 Applications for Performance Expert Videos Series
 - ▶ Defining Database Performance
 - ▶ Coding Relationally
 - ▶ General SQL and Indexing Guidelines
 - ▶ Coding for Concurrent Access
 - ▶ Understanding and Reviewing Db2 Access Paths
 - ▶ SQL Coding Tips and Techniques

Parallel Sysplex Curriculum

- Parallel Sysplex Fundamentals

Cloud Computing Curriculum

- Introduction to Cloud Computing
- Understanding Cloud Architecture
- Cloud Security
- Cloud Governance

REXX Curriculum

- REXX Fundamentals
- REXX Coding and Execution Basics
- General REXX Instructions
- Basic REXX Functions and Subroutines
- Manipulating and Converting Data
- REXX Program Flow
- REXX Handling Errors
- Working in the TSO Environment
- Host Commands and System REXX

Java Programming Curriculum

- Java on z/OS for Java Programmers
- Java Introduction for the IBM Enterprise
- Java Programming for the IBM Enterprise
- Java Data Access for the IBM Enterprise

Linux Curriculum

- Introduction to Linux
- The Linux File System
- Editing with VI
- Linux Shell Programming
- Linux Operations
- Linux on IBM Z Fundamentals

Business Continuity and Disaster Recovery Curriculum

- Ensuring Data Center Business Continuity
- Data Center Disaster Recovery Planning
- Data Center Backup and Recovery Strategies

z/OS UNIX System Services Curriculum

- z/OS UNIX System Services – Basics
- Interacting with the z/OS UNIX System
- Working with z/OS UNIX

Utilities Curriculum z/OS

- General Data Set Utilities
- Copy, Compare, and List Data Utilities
- Sort and Update Data Utilities
- Advanced – Tips and Tricks

VSAM Curriculum

- Introduction to VSAM
- Defining, Altering, and Deleting VSAM Data Sets
- Working with VSAM Data Sets
- Managing VSAM Data
- Advanced – Tips and Tricks

CLISTS Curriculum

- CLIST Basics
- Advanced CLIST Coding
- Performing I/O with CLIST

IMS Curriculum

- IMS 15 Introduction
- IMS 15 Commands
- IMS 15 Databases
- IMS 15 Transaction Manager for Programmers

IBM Z Workload Scheduler Curriculum

- Understanding How IBM Z Workload Scheduler Processes Work
- Monitoring and Managing the IBM Z Workload Scheduler Environment
- Scheduling with IBM Z Workload Scheduler
- Maintaining the Integrity of IBM Z Workload Scheduler

BMC Curriculum

- Control-M Series
 - Introduction to CONTROL-M for z/OS
 - Defining and Scheduling Jobs Using Control-M
 - Monitoring and Managing Job Processing
- MainView Series
 - Overview of the MainView Environment
 - Advanced MainView Screen Functionality

Broadcom (CA) Curriculum

- CA 1* Tape Management Series
 - Using Tape Media
 - Identifying & Resolving Media Problems
- CA 7* Workload Automation Series
 - Introduction to CA Workload Automation – CA 7@Edition
 - Scheduling Batch Processing
 - Monitoring and Managing the Batch Processing Environment
 - System Programmer Interaction with CA 7
 - Backup, Recovery, and Problem Resolution

- CA 11* Workload Automation Restart and Tracking Series
 - CA Workload Automation Restart Option for z/OS Schedulers Overview
 - Managing CA Workload Automation Restart Option for z/OS Schedulers
- CA OPS/MVS* Event Management and Automation Series
 - Overview, Components & Features
 - Rules and OPS/REXX
 - Automate Events Using Relational Data Framework
 - Automating Events Using System State Manager
 - Schedule & Group Managers for Event Management
- CA Endeavor™ Software Change Manager Series
 - Software Change Manager Intro and Basic Usage
 - Software Change Manager Package Processing and Facilities

Ansible Curriculum

- Ansible on z/OS

IBM Certified SOA Associate Curriculum

- Service Oriented Architecture

z/VSE Curriculum

- Basics
- z/VSE for Operators
- Machine Learning Introduction

IBM Power Series – AIX Curriculum

- AIX Fundamentals
- AIX Fundamentals for UNIX System Administrators
- AIX Virtualization, VIO Server and Management

IBM Power Series – IBM i Curriculum

- IBM i Fundamentals Series
 - IBM i Fundamentals
 - Introduction to IBM i for System Operators
 - Monitoring and Managing IBM i Workloads
- IBM i System Administration Series
 - IBM i System Administration Fundamentals
 - Security Implementation
 - Journal Management
 - Storage Management
 - Logical Partitioning and Virtualization
- IBM i Programming Fundamentals Series
 - CLP Programming
 - CLP Programming Functions and Messaging
- IBM i RPG/400 Series
 - RPG/400 Introduction
 - RPG/400 Coding
 - RPG/400 Programming
 - RPG/400 Workstation Programming
 - RPG/400 Advanced Workstation Programming
- IBM i Query Series
 - Database Basics and the Need for Query
 - Creating a Simple Query
 - Advanced Query Features and Management
- IBM i Application Programming Introduction Series
 - Db2 for IBM i – Introduction for Programmers

IBM LinuxOne Hardware Curriculum

- Introduction to LinuxONE 5

Coaching and Mentoring for Technical Specialists

- Coaching and Mentoring for Technical Specialists

MAINFRAME SKILLS ASSESSMENTS

Accurately and objectively evaluate the strengths and weaknesses of your mainframe workforce. Fill skill gaps! Target training!

- CICS Assessments
 - CICS Concepts and Operation
- COBOL Assessments
 - COBOL Basics
 - COBOL Advanced
- JCL Assessments
 - JCL Concepts
 - JCL Problem Resolution
 - JCL Coding
- JES2 Assessments
 - JES2 Concepts and Operation
 - JES2 Problem Resolution
- PL/I Assessments
 - PL/I Basics
 - PL/I Advanced
- SDSF Assessments
 - SDSF Concepts and Operation
 - Monitoring Job Activity Using SDSF
 - Managing System Resources Using SDSF Assessment
- TSO/ISPF Assessments
 - TSO/ISPF Concepts
 - TSO/ISPF Operation
- z/OS Assessments
 - z/OS Concepts
 - z/OS System Operations
 - z/OS Problem Diagnosis and Resolution
- Mainframe Network Communications Assessments
 - Mainframe Network Communications

HANDS-ON SANDBOX LABS

Advanced mainframe training via guided, hands-on, mainframe labs on your mainframe system. Taking mainframe skills to the NEXT LEVEL!

- JCL (z/OS)
- TSO/ISPF
- JES2
- SDSF
- z/OS Operator
- COBOL Programming
- z/OS UNIX
- z/OS Systems Programmer Basics
- CICS
- Database (Db2) (SQL)
- REXX*

* Future Releases

COACHING & MENTORING TOOLBOX

Train senior mainframers in coaching & mentoring, and empower them with tools to simply develop customized in-house mainframe classes/webinars, and to blend courses, labs & coaching/mentoring into customized learning pathways.

- Coaching and Mentoring for Technical Specialists
- Mainframe Class/Webinar Developer
 - CICS
 - COBOL
 - Db2
 - IMS
 - Introduction to the IBM Environment
 - Introduction to Mainframe Networks
 - Introduction to z/OS Security
 - JCL
 - z/OS Application Programming
 - z/OS Operator
 - z/OS Systems Programming
- Enhanced Learning Pathways