

InterSkill Learning has offered the mainframe computing industry's finest e-learning solutions for over 20 years. The following list of Mainframe e-Learning Courses and Mainframe Skills Assessments represents over 2,000 hours of e-learning courseware for mainframe computing personnel and provides a training solution of unmatched depth, breadth and currency.

## **z/OS Curriculum**

- z/OS Series
  - z/OS Concepts and Components
  - Initializing and Terminating the z/OS System
  - Monitoring the z/OS System
  - z/OS Architecture
  - Identifying z/OS System Problems
  - Resolving z/OS System Problems
  - z/OS - Advanced
- 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

## **zEnterprise Curriculum z/OS**

- Introduction to the IBM Z Mainframes

## **z/OS Management Facility Curriculum z/OS**

- The z/OS Management Facility

## **IBM Explorer for z/OS Curriculum z/OS**

- IBM Explorer for z/OS

## **Job Control Language (JCL) Curriculum z/OS**

- JCL (z/OS) – Introduction to z/OS JCL
- JCL (z/OS) – Using Special Data Sets in Batch Jobs
- JCL (z/OS) – Identifying & Resolving Batch Problems in JCL
- JCL (z/OS) – Coding Procedures & JES2 Control Statements
- JCL (z/OS) – Advanced

## **JES Curriculum**

- JES2 System Initialization and Shutdown
- Monitoring Batch Jobs with JES2
- Using JES2 in Scheduling Batch Jobs
- Identify and Resolve JES2 Batch Problems
- Identify and Resolve JES2 System Problems
- JES2 - Advanced

## **Mainframe Application Performance Curriculum**

- Introduction to Sampling Performance Tools

## **z/OS Connect**

- Introduction to z/OS Connect

## **Blockchain Curriculum**

- Blockchain Fundamentals

## **Rational Developer for System z Curriculum**

- Rational Developer for System z Basics
- Creating and Managing Applications Using RDz

## **TSO/ISPF for z/OS Curriculum z/OS**

- Using Online System Facilities – TSO/ISPF
- Managing Data Files and Definitions with ISPF/PDF
- Maintaining Data in Files with the ISPF Editor
- TSO/ISPF - Advanced

## **DevOps and Agile Curriculum**

- DevOps Fundamentals
- Introduction to Agile

## **Cryptography Curriculum**

- Cryptography

## **IBM Environment Introduction Curriculum z/OS**

- Introduction to IBM Enterprise Environment
- z/OS Systems Programming Fundamentals
- IBM Development Environment Overview

## **IBM Mainframe Communications Curriculum z/OS**

- IBM Mainframe Communications Concepts
- VTAM Commands
- Mainframe TCP/IP Commands

## **SDSF Curriculum z/OS**

- SDSF Concepts and Operation
- Using SDSF to Control Job Processing
- Using SDSF to Display, Manipulate and Print Job Output
- Using SDSF to Manage System Resources and Devices
- SDSF - Advanced

## **Data Center Storage Management Curriculum z/OS**

- Using DFSMS to Manage the z/OS Storage Environment
- Storage Fundamentals for Data Centers
- Storage Networks, Administration, and DASD Management Using ICKDSF

## **Virtualization Curriculum**

- z/VM Concepts, System Initialization and Shutdown
- Monitoring and Controlling z/VM Operations
- Managing Guest Operating Systems
- Identifying and Resolving z/VM Problems
- Linux on z System Fundamentals

## **Database Curriculum (DB2 v11)**

- Database Series
  - DB2 Fundamentals
  - Managing DB2 Operations
- DB2 – Database Management System Series
  - Introduction to RDBMSs and DB2
  - Manage Data Definitions with DB2
  - DB2 SQL Fundamentals
  - Advanced DB2 SQL
  - Create and Maintain DB2 Programs
  - DB2 Stored Procedures
  - Optimize DB2 Application Performance

## **Data Analysis, Analytics, and Machine Learning Curriculum**

- Big Data, Hadoop and Analytics
- Machine Learning and Spark

## C Programming

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

## COBOL Programming Curriculum

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

## CA Curriculum

- CA 1<sup>®</sup> Tape Management Series
  - CA 1 Tape Management - Using Tape Media
  - CA 1 Tape Management - Identifying & Resolving Media Problems
- CA 7<sup>®</sup> Workload Automation Series
  - Introduction to CA Workload Automation - CA 7<sup>®</sup> Edition
  - Scheduling Batch Processing
  - Monitoring and Managing the Batch Processing Environment
  - System Programmer Interaction with CA 7
  - Backup, Recovery, and Problem Resolution
- CA 11<sup>®</sup> 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<sup>®</sup> Event Management and Automation Series
  - CA OPS/MVS - Overview, Components & Features
  - CA OPS/MVS - Rules and OPS/REXX
  - CA OPS/MVS - Automat. Events Using Relational Data Framework
  - CA OPS/MVS - Automating Events Using System State Manager
  - CA OPS/MVS - Schedule & Group Managers for Event Management
- CA Endeavor<sup>™</sup> Software Change Manager Series
  - CA Endeavor<sup>™</sup> Software Change Manager Intro and Basic Usage
  - CA Endeavor<sup>™</sup> Software Change Manager Package Processing and Facilities

## Security Curriculum

- Introduction to Mainframe Security Series
  - Introduction to Mainframe Security
- CA ACF2<sup>™</sup> Series R15
  - CA ACF2<sup>®</sup> - Introduction
  - CA ACF2<sup>®</sup> - Protecting System Access
  - CA ACF2<sup>®</sup> - Protecting Data Integrity
  - CA ACF2<sup>®</sup> - Protecting General Resources
  - CA ACF2<sup>®</sup> - Defining Environment Controls
  - CA ACF2<sup>®</sup> - Maintaining CA ACF2
  - CA ACF2<sup>®</sup> - For Auditors
- RACF Series
  - Defining Users to RACF
  - Protecting System Resources Using RACF
  - RACF for System Administrators and Auditors

## Assembler Programming Curriculum

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

## BMC Curriculum

- Introduction to CONTROL-M
- Defining and Scheduling Jobs Using Control-M
- Monitoring and Managing Job Processing

## 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
  - CL Programming
  - CL 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

## CICS Transaction Server Curriculum

- CICS TS Operations Series
  - CICS TS - Introduction
  - CICS TS - Explorer Fundamentals
  - CICS TS - Controlling CICS Operations
- 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
  - CICS Terminal Communications
  - Using SDF II to Maintain CICS TS Maps
  - Programming for Recovery
  - Debugging CICS Programs
  - CICS Command Simulations

## Tivoli Workload Scheduler Curriculum

- Understanding How Tivoli Workload Scheduler Processes Work
- Monitoring and Managing the Tivoli Workload Scheduler for z/OS Environment
- Scheduling with Tivoli Workload Scheduler for z/OS
- Maintaining the Integrity of Tivoli Workload Scheduler for z/OS

### 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

### IMS Curriculum v15

- Introduction to IMS
- IMS Commands
- IMS Databases

### REXX Curriculum

- Introduction to the REXX Programming Language
- REXX Keyword Instructions
- REXX Built-In Functions
- REXX with z/OS and TSO/E

### WebSphere Curriculum

- Introduction to WebSphere MQ
- Introduction to WebSphere Application Server

### 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

### z/OS UNIX System Services Curriculum

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

### IBM Certified SOA Associate Curriculum

- Service Oriented Architecture

### Utilities Curriculum z/OS

- z/OS Batch Utilities Series
  - Data Utilities
  - General Data Set Utilities
  - Utilities - Advanced
- VSAM Series
  - Introduction to VSAM

### Cloud Computing Curriculum

- Cloud Computing for Data Centers

### Disaster Recovery Curriculum

- Ensuring Data Center Business Continuity

## CERTIFICATION BUNDLES

### IBM System z Mastery Test Curriculum

- Introduction to IBM Enterprise Environment
- z/OS Systems Programming Fundamentals
- IBM Development Environment Overview
- Using Online System Facilities - TSO/ISPF
- CICS Transaction Server(TS) - Introduction
- Introduction to RDBMSs and DB2
- Introduction to WebSphere Application Server
- Introduction to WebSphere MQ
- Managing Data Files and Definitions with ISPF/PDF
- Maintaining Data in Files with the ISPF Editor
- JCL (z/OS) - Introduction to z/OS JCL
- Systems Programming on z/OS Practice Assessment
- Application Programming on z/OS Practice Assessment
- z/OS Online Workloads Practice Assessment
- Intro to z/OS & Mainframe Environment Practice Assessment

(Note: Interskill Learning has updated its specialty curriculum mapped to the "IBM System z Mastery Test" which is IBM's global industry standard for entry level System z system programmers.)

## MAINFRAME PRESENTER SERIES

Quickly and simply develop powerful in-house mainframe classes and webinars that, teamed with Interskill's e-learning courses, offer the most comprehensive, system specific mainframe training!

### MAINFRAME PRESENTER SERIES AVAILABLE

- Job Control Language (JCL)
- z/OS Pathway
- Introduction to the IBM Environment
- z/OS Application Development
- z/OS Systems Programming
- COBOL Programming
- IMS Pathway
- Database (DB2)
- CICS Pathway
- Introduction to Mainframe Networks
- Introduction to z/OS Security



## MAINFRAME SKILLS ASSESSMENTS

Accurately and objectively evaluate the strengths and weaknesses of your mainframe workforce with these comprehensive banks of mainframe computing questions.

### 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

### TSO/ISPF Assessments

- TSO/ISPF Concepts
- TSO/ISPF Operation

### Mainframe Network Communications Assessments

- Mainframe Network Communications

### z/OS Assessments

- z/OS Concepts
- z/OS System Operations
- z/OS Problem Diagnosis and Resolution

### IBM z/OS System Programmer Assessments

- Systems Programming on z/OS Assessment
- Application Programming on z/OS Assessment
- z/OS Online Workloads Assessment
- Introduction to z/OS & the Mainframe Environment Assessment

## COMING SOON

- z/OS v2.3 – All 40 core z/OS courses will be updated
- BMC NetView
- z/VSE Curriculum – 12 new courses
- HP Nonstop (Tandem) – 8 new courses
- IMS TM (Transaction Manager) – New