This comprehensive, year-round, on-demand, online mainframe training resource is the world’s MOST delivered mainframe workforce training. Over 1 Million Mainframers Trained!

**MAINFRAME COURSES**

**z/OS Curriculum**
- **z/OS Series**
  - z/OS Concepts and Components
  - Initializing and Terminating the z/OS System
  - Monitoring the z/OS System
  - z/Architecture - Processing Workloads
  - z/Architecture - Memory, Address Spaces and Virtual Storage
  - Identifying z/OS System Problems
  - Resolving z/OS System Problems
  - z/OS – Advanced – Tips and Tricks

**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 Systems
- IBM Z Hardware Models
- Managing IBM Z Enterprise System Hardware

**z/OS Management Facility Curriculum z/OS**
- z/OSMF - The IBM 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) – JCL Coding Basics – JOB and EXEC Statements
- JCL (z/OS) – JCL Coding Basics – DD Statements
- JCL (z/OS) – Advanced JCL Data Set Use
- JCL (z/OS) – Controlling Job and Step Processing
- JCL (z/OS) – Working with Procedures and Symbols
- JCL (z/OS) – Running and Debugging JCL
- JCL (z/OS) – Advanced – Tips and Tricks

**JES Curriculum**
- JES2 System Initialization and Shutdown
- Monitoring Batch Jobs with JES2
- Using JES2 in Scheduling Batch Jobs
- Identity and Resolve JES2 Batch Problems
- Identify and Resolve JES2 System Problems
- JES2 – Advanced – Tips and Tricks

**Mainframe Application Performance Curriculum**
- Introduction to Sampling Performance Tools

**z/OS Connect**
- z/OS Connect EE – IBM z/OS Connect Enterprise Edition v3

**Blockchain Curriculum**
- Blockchain Technologies

**Zowe Curriculum**
- Zowe Fundamentals

**DevOps and Agile Curriculum**
- DevOps – 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**
- 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 – Tips and Tricks

**Cryptography Curriculum**
- Cryptography

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

**IBM Mainframe Communications Curriculum z/OS**
- IBM Mainframe Communications Concepts
- VTAM Commands
- Mainframe TCP/IP Commands

**IBM Z System Automation Curriculum**
- SA z/OS - Introduction to IBM Z System Automation
- SA z/OS - IBM System Automation: Planning, Installation, and Customization
- SA z/OS - IBM System Automation: Operations
- SA z/OS - Automation Definitions Introduction and Workshop
- SA z/OS - Advanced Automation and Reporting

**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

**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 – 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 DFSMShsm

FULL COURSE OUTLINES ARE AVAILABLE AT HTTPS://WWW.INTERSKILL.COM
### Data Analysis, Analytics, and Machine Learning Curriculum
- Big Data, Hadoop and Analytics
- Machine Learning and Spark

### 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

### Coaching and Mentoring for Technical Specialists
- Coaching and Mentoring for Technical Specialists

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

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

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

### C Programming Curriculum
- 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
- COBOL IBM Enterprise COBOL 6.3 for z/OS
- Accessing IMS Database from COBOL

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

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

### 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

### Database Curriculum (Db2 v12)
- 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

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

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

### 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

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**Full Course Outlines are available at** [https://www.interskill.com](https://www.interskill.com)

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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

Disaster Recovery Curriculum
- Ensuring Data Center Business Continuity

Utilities Curriculum z/OS
- Data Utilities
- General Data Set Utilities
- Utilities – Advanced – Tips and Tricks

VSAM Curriculum
- VSAM – Introduction to VSAM
- VSAM – Managing VSAM Data
- VSAM – Advanced – Tips and Tricks

Mainframe Related Curriculum
- CLISTS Introduction

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

Broadcom (CA) Curriculum
- CA 1 Tape Management Series
  - CA 1 Tape Management - Using Tape Media
  - CA 1 Tape Management - Identifying & Resolving Media Problems
- CA 7 Workload Automation Series
  - Introduction to CA Workload Automation - CA 7th 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
  - 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 Endevor™ Software Change Manager Series
  - CA Endevor™ Software Change Manager Intro and Basic Usage
  - CA Endevor™ Software Change Manager Package Processing and Facilities
- CA Endevor™ Software Change Manager Series
- CA Endevor™ Software Change Manager Series
- CA Endevor™ Software Change Manager Series
- CA Endevor™ Software Change Manager Series
- CA Endevor™ Software Change Manager Series

Parallel Sysplex Curriculum
- Parallel Sysplex - Fundamentals

Cloud Computing Curriculum
- Introduction to Cloud Computing
- Understanding Cloud Architecture

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

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
  - 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 Certified SOA Associate Curriculum
- Service Oriented Architecture

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

- **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

TRAINING SANDBOX EXERCISES (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
- IMS*
- Database (Db2) (SQL)*
- CICS*
- Intro to Mainframe Networks*
- Introduction to z/OS Security*

* Released throughout 2021-2022

COACHING & MENTORING TOOLBOX
Train senior mainframers to be superior coaches & mentors then arm them with a tool to simply develop customized in-house mainframe classes/webinars. Utilize Enhanced Pathways to team e-learning courses, Labs & coaching/mentoring into a customized mainframe training powerhouse!

COACHING AND MENTORING COURSE CURRICULUM
  - Coaching and Mentoring for Technical Specialists

MAINFRAME CLASS/WEBINAR DEVELOPER
  - 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 z/OS Security

ENHANCED LEARNING PATHWAYS

COMING IN 2021/2022

COURSE UPDATES & EXPANSIONS
  - IBM Developer for z Systems (IDZ)
  - REXX
  - z/OS Updated to v2.5

NEW COURSES
  - z/VSE Curriculum – 8 new courses
  - JES3
  - RestAPI
  - Python
  - WebSphere

FULL COURSE OUTLINES ARE AVAILABLE AT HTTPS://WWW.INTERSKILL.COM