

---

# Phil Riley's z/OS Concepts and Facilities

(Visit [www.epstrategies.com](http://www.epstrategies.com) for class schedule and pricing.)

A week of learning and doing!

## **Audience**

This two-day introductory seminar is intended for application and system programmers, operators, system support staff and managers who require knowledge of the z/OS environment and the various mainframe supported functions of this operating system.

## **Seminar Abstract**

The seminar is designed for the newcomer to the world of z/OS and the mainframe environment. It introduces the various components of z/OS, the types of workload supported by z/OS, and examines how this operating system performs the necessary functions to run the different types of work.

*Note: This is a lecture only seminar. No Labs are provided.*

## **Prerequisites**

No prerequisites are required for this seminar.

## **Seminar Objectives**

In this seminar, students will learn:

- The various component parts that make up the z/OS operating system
- The latest IBM mainframe models and how I/O devices are attached
- The different kinds of workload and how work is entered into the system
- How the mainframe is suited to work with other platforms such as workstations
- The various types of network that z/OS supports
- How databases are structured, accessed and controlled
- The terminology and buzzwords associated with the mainframe environment



---

## **Seminar Outline**

The following is a high level outline for this seminar:

### **Mainframe Environment**

- ESA/390 vs. z/Architecture
- Logical partitioning
- ECL vs. CMOS technology
- I/O facilities
- ESCON and FICON switches
- Parallel Sysplex structure and GDPS
- Server clustering

### **z/OS Network Facilities**

- SNA vs. TCP/IP networks
- APPN and SNA networks
- Open System Adapters
- Distributed Computing
- WWW access using z/OS

### **MVS Component**

- MVS, JES and DFSMS
- The JCL requirement
- Address Space concept and layout
- Virtual Storage
- Dynamic Address Translation and Page Tables
- Multiprogramming and Interrupt Handling

### **MVS Installation and Maintenance**

- The installation process
- Hardware Configuration Definition (HCD)
- Using ServerPac
- Configuring the system
- Msys for Setup
- The IPL process
- System Modification Program (SMP/E)
- System Automation

### **Using TSO**

- Logging on and the logon procedure
- Using Resource Access Control Facility (RACF)
- Native TSO vs. ISPF
- ISPF panel-driven dialogs
- UNIX System Services shell
- UNIX System Services ISPF shell

### **Using Batch**

- Using ISPF to create JCL
- JCL submit processing
- The Initiator address space
- Initiator classes and work queue control
- Browsing the SPOOL using System Display and Search Facility (SDSF)



---

## Using Online Transactions

- Started Tasks
- Online transaction systems
- Transaction Manager processing – CICS and IMS/DC
- Database Managers – DB2 and IMS/DB

## Data Management

- Files vs. Datasets
- Creating datasets
- Master and User Catalogs
- The Volume Table of Contents (VTOC)
- Access Methods and Data Set Organization (DSORG)
- Virtual Storage Access Method (VSAM)
- Hierarchical File System (HFS)
- The DFSMS/MVS component of z/OS



---

## **Seminar Dates and Location and Prices**

For dates and locations and prices, please visit [www.epstrategies.com](http://www.epstrategies.com) for details, or call our office at 813-435-2297. Seminars are regularly offered in the USA and Europe.

### **Instructor**

**Phil Riley**, Principal of Phil Riley Systems Consulting, has worked in the mainframe environment for over 37 years. He began his career working for Rolls Royce in his native England and decided to immigrate to Canada in 1973. After working with the installation of the first releases of MVS, he joined Amdahl Canada in 1977 as a Systems Engineer, specializing in MVS support and diagnostics. After being hardware trained to support Amdahl's mainframe product line, he was sent to Europe for 18 months to assist with hardware and software support in England, the Netherlands, Belgium and Sweden.

In 1985, **Phil** left Amdahl to join some friends who were forming an outsourcing company known as Aaski Management. The company was granted a marketing assistance role by IBM, whereby the two companies worked together to help IBM improve the sales of their mid-sized mainframes. Companies that were signed up with one of Toronto's data processing service bureaus then found they had a cost-justified alternative way to run their data processing operation using their own processor, either located in their own Aaski-built data centre, or in Aaski's own computer room where they were given remote access. **Phil** was responsible for the design of the 10,000 sq. ft. data centre, together with the installation and management of environmental, large-scale computer and communications hardware. He was also responsible for the hiring of operations and technical support staff, and the direct support of several MVS systems. He managed the projects for the successful conversion of six clients from service bureau to in-house environments.

**Phil** returned to Amdahl in 1991 to work as an instructor in their education division. His extensive knowledge of the MVS operating system plus mainframe architecture, his experiences at Aaski, and his desire to work in a teaching environment made him an ideal candidate for this role. When he became self-employed through downsizing in 1994, he continued to work under contract, not only for Amdahl, but also for IBM and several other companies specializing in large system education. **Phil** now has over 14 years experience in teaching, and has delivered open enrolment and contract classes throughout Canada and the United States, plus the Middle East, China and India. He specializes in z/OS internals and diagnostics, assembler language and hardware configuration.

### **For More Information...**

For more information on this or other seminars, including prices and locations, please contact:

Enterprise Performance Strategies, Inc.  
3547 53<sup>rd</sup> Avenue West, #145  
Bradenton, FL 34210

Phone: 813-435-2297  
Fax: 813-435-2298

Email: [Peter.Enrico@EPStrategies.com](mailto:Peter.Enrico@EPStrategies.com)  
[Dana.Novotny@EPStrategies.com](mailto:Dana.Novotny@EPStrategies.com)  
Web: [www.epstrategies.com](http://www.epstrategies.com)

Please do not hesitate to call if you would like more information or details on this seminar. Peter will be happy to talk with you.

### **In-house**

All seminars are available for in-house instruction.

