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IBM Z: Technical Overview of HW and SW Mainframe Evolution  
Information

**Length:** 16.0 Hours  
**Ref:** ES82G □  
**Delivery method:** Classroom  
**Price:** AUD

Overview

This course is designed to provide an understanding of today's complex system mainframe environment on the zEnterprise System and System z servers. It is mainly targeted for operators technical support, system programmers, and any others who need to keep current in this mainframe environment. Through lecture and hands-on exercises, you learn how the hardware and operating systems interact.

This course addresses the following topics:

- Mainframes and distributed server comparisons: Why so many servers?
- Mainframe directions: Past, current, and future
- Mainframes: System z introduction and relative performance comparisons
- IBM System z hardware design: Frames, CEC cage, books, models, and MSUs
- System z Capacity on Demand
- Physical/Logical partitioning, server initialization, and CHPIDs
- I/O configuration and HCD overview
- MVS to z/OS software overview
- z/OS Parallel Sysplex
- z/OS enhancements on the zPlatform
- z/Architecture overview and virtual addressing concepts
- System concepts: The big picture
- HMC introduction, groups, and activation profiles
- Determining object status and error conditions
- Activation and operating system interface

Public

The basic class should consist of lead operators, technical support personnel, system programmers, or anyone in the technical field who requires an understanding of how the current hardware and software interact in the large mainframe environment.

Prerequisites

You should have an understanding of:

You should have an understanding of:

- Basic data processing concepts
- I/O concepts

## Topics

### Day 1

- Welcome
- Introduction and course overview
- Unit 1: Mainframe directions and System z servers
- Unit 2: Server hardware and I/O configuration (part 1)

### Day 2

- Review
- Unit 2: Server hardware and I/O configuration (part 2)
- Unit 3: MVS to z/OS overview and processor concepts
- Unit 4: Hardware Management Console basics
- Supporting labs:
  - Exercise 1: Remote access set up
  - Exercise 2 HMC web browser and UI set up
  - Exercise 3: HMC familiarization and lab system activation
  - Exercise 4: Hardware Management Console fundamentals (optional)