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

Length:	12.0 Hours
__Ref:	ES89G □
Delivery method:	ClassroomInstructor Led Online
Price:	AUD

Overview

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

Public

The 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.

z/Architecture and z/OS overview and concepts is an optional unit depending on the student audience. It is the instructor’s decision to either present the material in the unit or explain to the students that the unit contains detailed z/Architecture information and might not be applicable to the student’s job role and responsibilities.

Prerequisites

You should have an understanding of:

- Basic data processing concepts
- I/O concepts

Objective

- Mainframes and distributed server comparisons: Why so many servers?
- Mainframe directions: Past, current, and future
- Mainframes: z Systems introduction and relative performance comparisons
- Basic functions, characteristics, and terminology of z Systems servers
- z Systems servers and hardware models, from zSeries server to the latest z14 and z14 ZR1

servers

- IBM z Systems hardware design: Frames, CEC cage, drawers, books, models, and MSUs
- I/O infrastructure and processor usage
- z Systems 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 z Platform
- z/Architecture overview and virtual addressing concepts
- HMC introduction, groups, and activation profiles
- Determining object status and error conditions
- Activation and operating system interface

Topics

Day 1

- (00:30) Welcome
- (00:30) Introduction and course overview
- (02:00) Unit 1: Mainframe directions and z Systems (04:00) Unit 2: Server hardware and I/O configuration

Day 2

- (02:00) Unit 3: MVS to z/OS overview and processor concepts
- (01:30) Unit 4: Hardware Management Console basics
- (02:00) Unit 5 (Optional): z/Architecture and z/OS overview and concepts