

## ZOS01 Z/OS Concepts & Facilities

**Course Description** This course gives an overview of Z/OS internals and describes some of the Z/OS concepts & facilities.

**Who Should Attend** Participants should be systems programmers or system technicians who require an overview of the Z/OS operating system internals.

**Pre-Requisites** At least 6 months practical experience gained within an Z/OS environment.

**Duration** 2 Days

### Machine Architecture

Operating Systems  
Z/OS - The Story So Far  
The CPU  
Main Storage  
The Channel Sub-System  
Control Units

### Z/OS

System Initialisation  
Operating System Components  
Multiprogramming  
Multiprocessing  
Loosely / Tightly Coupled Processors

### Storage Management

Real Storage  
Expanded Storage  
Virtual Address Spaces  
Auxiliary Storage  
Virtual Storage  
Paging  
Swapping  
Data Spaces  
Hiper Spaces  
Addressing Mode  
Residency Mode

### Program & Task Management

Program Translation  
Program Link Edit  
Program Execution  
The Initiator  
The Supervisor  
The Interrupt Handlers  
The Program Status Word  
The Terminator

### I/O Supervision

Application Program  
Access Methods  
EXCP Processor  
I/O Supervisor  
Channel Subsystem  
Data Flow

### Data Management

The Catalog  
The VTOC  
The VVDS  
Non VSAM Access Methods  
VSAM Access Methods  
Access Method Services

### Z/OS Control Blocks

Functional Overview  
Data Related Z/OS Control Blocks  
DSCB  
DCB  
DEB  
System Related Z/OS Control Blocks  
ASCB  
TCB  
TIOT  
Control Block Linkage

### DASD Space Management

DASD Space Management Overview  
DFHSM

### System Modifications Overview

SMP/E  
CBIPO / CBPDO Packages