

# DOS and the PC

## Course Outline

Foundation Level

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### **AN OVERVIEW OF THE PC**

- The Components Of A PC
- The Operating System - DOS And Windows
- Storage Devices
- The Serial And Parallel Ports
- The CPU (Central Processing Unit)
- The ROM-BIOS And The CMOS-RAM
- PC Interrupts
- 'Plug And Play'
- Getting Help Within DOS And Windows

### **DIRECTORIES AND FILES**

- What Are Directories?
- Manipulating Directories
- The Dir Command
- What Are Files?
- File Naming Conventions
- Internal Vs External DOS Files
- Creating Text Files - Edit Vs Copy Con
- Renaming, Deleting And Un-Deleting Files
- Copying And Moving Files
- Viewing And Finding Files Within DOS
- Viewing And Finding Files Using The Windows File Manager
- Manipulating File Attributes

### **DISK FUNDAMENTALS**

- Types - Floppy Disks (Diskettes) And Hard Disks
- Setting Up A Hard Disk From Scratch
- Disk Partitions
- High Level (Logical) Formatting
- Diskette Formatting Considerations
- Un-formatting A Disk
- Copying And Labelling Diskettes
- Speeding Up Disk Access With Defrag
- Buffers
- Smartdrive
- Disk Compression - Dblspace And Drvspace
- Disk Structures
- The DOS Boot Sequence
- Ram Disks

### **MEMORY FUNDAMENTALS**

- Type Of Memory Chips - Ram And Rom
- The IBC PC, The 8086 CPU And DOS
- Conventional Memory
- Extended Memory
- Expanded Memory - An Old Technology!
- High Memory Area
- Devicehigh And Loadhigh
- Virtual Memory - Used By Windows!
- Examining Memory
- Configuring Your Pc
- The DOS Boot Sequence
- Conditional Booting
- The Config.Sys
- The Autoexec.Bat
- The DOS Path
- The DOS Environment
- 'Loading High'

### **BASIC BATCH FILES, I/O AND REDIRECTION**

- Rem And Echo
- Goto And Call
- Pause
- I/O, Device Names And Redirection
- Piping

### **ADVANCED BATCH FILE CONCEPTS**

- What Are Variables?
- Command Line Parameter Substitution
- Environment Variable Substitution
- If Exist
- If Errorlevel
- DOSkey Macros

### **PRINTERS**

- Types Of Laser Printer - PCL Vs. Postscript
- Printer Considerations
- Printer Drivers For DOS And Windows

### **SECURITY, BACKUPS AND VIRUSES**

- What Are Viruses?
- Virus Protection Methods DOS And Windows
- Backups
- Fixing Errors On A Disk