



*Training Course:  
Operating Systems*

*7 - 18 September 2025*

*Cairo (Egypt)*

*Holiday Inn & Suites Cairo Maadi, an IHG Hotel*

# Training Course: Operating Systems

Training Course code: EN6082 From: 7 - 18 September 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 6600 € Euro

## Introduction

Introduction to operating systems, operating system structures, multi-process management, multi-thread management, inter process communication, deadlocks, CPU scheduling, memory management, file system, storage and input/output systems. The course includes a number of programming assignments conducted in the lab.

## Course Objectives of Operating Systems

1. To understand the services provided by and the design of an operating system.
2. To understand the structure and organization of the file system.
3. To understand what a process is and how processes are synchronized and scheduled.
4. To understand different approaches to memory management.
5. Students should be able to use system calls for managing processes, memory and the file system.
6. Students should understand the data structures and algorithms used

## Course Outline of Operating Systems

- Introduction to operating systems
- Operating system structures, computer hardware properties
- Process concept in modern operating systems
- Multi-processes
- Thread concept and multi threading
- Process synchronization
- Process synchronization
- Deadlocks in multi processing
- Memory management
- Virtual memory management
- CPU scheduling algorithms
- File system
- Disk subsystem
- Review

## Registration form on the Training Course: Operating Systems

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