



Training Course: Operating Systems

*11 - 15 July 2027
Sharm El-Sheikh (Egypt)
Sheraton Sharm Hotel*

Training Course: Operating Systems

Training Course code: EN6082 From: 11 - 15 July 2027 Venue: Sharm El-Sheikh (Egypt) - Sheraton Sharm Hotel Training Course Fees: 5100 € Euro

Introduction

Operating Systems OS are the core software that manage computer hardware, software resources, and provide essential services for applications. They play a critical role in system performance, security, and user interaction across personal computers, servers, and embedded systems.

This program, designed by Global Horizon Training Center, equips participants with foundational and practical knowledge of operating systems, enabling them to understand system functionality, manage resources, and support IT operations effectively.

Course Objectives

By the end of this program, participants will be able to:

- Understand the role and functions of operating systems
- Identify different types of operating systems and their architectures
- Manage processes, memory, and file systems
- Understand system scheduling and resource allocation
- Apply basic command-line operations
- Recognize security and access control mechanisms
- Troubleshoot common system issues
- Support system performance and administration

Target Audience

This program is designed for:

- IT Support and System Administrators
- Computer Science and IT Students
- Technical Support and Help Desk Staff
- Software and Application Developers
- Network and Infrastructure Professionals
- Individuals seeking foundational OS knowledge

Outline

Day 1: Fundamentals of Operating Systems

- Introduction to operating systems and their roles
- Types of operating systems Windows, Linux, Unix, macOS
- OS architecture and components
- System calls and interfaces
- Overview of kernel functions

Day 2: Process and CPU Management

- Process concepts and lifecycle
- Threads and multitasking
- CPU scheduling algorithms
- Context switching
- Process synchronization basics

Day 3: Memory and Storage Management

- Memory management concepts
- Virtual memory and paging
- File systems and storage organization
- Disk management and performance
- I/O management

Day 4: Security and System Administration

- User authentication and access control
- System security principles
- Permissions and file security
- Basic system administration tasks
- Backup and recovery concepts

Day 5: Performance, Troubleshooting, and Applications

- System performance monitoring
- Troubleshooting OS issues
- Command-line tools and utilities
- Introduction to scripting basics
- Case studies and real-world applications

Registration form on the Training Course: Operating Systems

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