OS400 System Concepts & Architecture Training

COURSE CONTENT

About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

The OS400 System Concepts & Architecture training by Multisoft Systems is designed to provide participants with a deep understanding of IBM i (formerly AS/400) operating system fundamentals. This program covers the core architecture, object-based design, integrated database, and system concepts that make OS400 a unique and powerful enterprise solution.

Module 1: Introduction to IBM i (AS/400)

- ✓ History and evolution of AS/400 to IBM i
- ✓ Importance of OS/400 in enterprise systems
- ✓ Core business applications and industries using OS/400
- ✓ Role of OS/400 in modern IT infrastructure

Module 2: OS/400 Fundamentals

- ✓ Key characteristics of OS/400
- ✓ Object-based architecture explained
- ✓ OS/400 library structure and naming conventions
- ✓ Integrated nature of OS/400 (DB2, security, networking)

Module 3: System Architecture Overview

- ✓ Hardware and software integration in IBM i systems
- ✓ Role of Licensed Internal Code (LIC)
- ✓ OS/400 kernel and microcode layers
- ✓ System Value concepts and configuration

Module 4: Object-Oriented Operating System

- ✓ Object types in OS/400 (programs, files, libraries, queues, etc.)
- ✓ Attributes and authorities of objects
- ✓ Object security and access control
- ✓ Benefits of object orientation in OS/400

Module 5: OS/400 Database Architecture

- ✓ Integrated DB2 database concepts
- ✓ Relational model and SQL support
- ✓ Physical vs. logical files
- ✓ Journaling and commitment control

Module 6: Job and Work Management

- ✓ Job architecture: batch vs. interactive jobs
- ✓ Subsystems, job queues, and output queues
- ✓ Job scheduling and priorities
- ✓ Monitoring and managing workloads

Module 7: Security & User Management

- ✓ OS/400 security model overview
- ✓ User profiles, group profiles, and special authorities
- ✓ Object-level security
- ✓ Auditing and compliance tools

Module 8: Communication & Networking

- ✓ Communication protocols supported by OS/400
- ✓ TCP/IP configuration and services
- ✓ Remote command execution and distributed systems support
- ✓ Integration with external systems

Module 9: System Operations & Administration

- ✓ System startup and shutdown procedures
- ✓ Backup and recovery strategies (SAV, RST commands)
- ✓ Performance monitoring and tuning
- ✓ System value customization

Module 10: Advanced Concepts

- ✓ Program execution environment
- ✓ Single-level storage concept
- ✓ Virtualization and partitioning (LPARs)
- ✓ Integration with cloud and modern environments

Module 11: Practical Workshops & Case Studies

- ✓ Creating and managing user profiles
- ✓ Working with libraries, objects, and job queues
- ✓ Configuring basic TCP/IP services
- ✓ Database journaling and recovery exercises
- ✓ Real-world AS/400 administration scenarios