

Advance MacOS Administration

Prerequisites: “macOS Device and Support Essentials X” course

Duration: 4 Days (8 Hrs/Day)

Course Objective: In this course, you'll delve into advanced macOS administration, gaining a comprehensive understanding of macOS recovery, Apple platform security, Automator, file system intricacies, Keychain Access, and essential Terminal commands. By the end, you'll be equipped to efficiently manage Mac systems, troubleshoot complex issues, and enhance security measures, empowering you to excel in Mac administration roles.

OS Version: Monterey or Later

Lab Requirement: Bring Your Own Device (BYOD)

Module 1 - macOS Recovery: In-Depth Functionality Review

- Understanding macOS Recovery on a Mac with Apple silicon
- **Lab:** Start up your Mac with Apple silicon in macOS Recovery
- **Lab:** Connect to the internet using Wi-Fi
- **Lab:** Repair your internal storage device using Disk Utility
- **Lab:** View the recovery log
- **Lab:** Create a recovery diagnostics file

Module 2 - Apple Platform Security

- Hardware security in Apple silicon Macs
- System security
- Encryption and Data Protection
- App security
- Services security

Module 3 - Apple Automator

- How to create a workflow
- How to use AppleScript scripts
- How to use Automator workflows with the Shortcuts app
- **Lab:** How to create a workflow
- **Lab:** How to use AppleScript scripts
- **Lab:** How to use Automator workflows with the Shortcuts app

Module 4 - Understanding macOS File System

- Understanding the standard UNIX FHS (Filesystem Hierarchy Standard)
- Understanding macOS folders
- Understanding macOS SIP (System Integrity Protection)
- **Lab:** How to navigate the file system
- **Lab:** How to show/hide files and folders in macOS

Module 5 - Understanding Keychain Access

- How to view passwords
- How to view certificates
- How to troubleshoot Keychain Access problems
- **Lab:** How to view passwords
- **Lab:** How to view certificates
- **Lab:** How to troubleshoot Keychain Access problems

Module 6 - macOS Terminal Commands

- How to navigate the file system
- How to create and execute scripts
- How to create and manage environment variables
- Essential macOS Terminal commands
- **Lab:** Navigating the macOS file system using Terminal
- **Lab:** Creating and executing shell scripts
- **Lab:** Creating and managing environment variables in macOS