

# Operating Systems Basics

## Scope and Sequence

Version 1.0

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## Target Audience

The Cisco® Operating Systems Basics course is designed for SkillsForAll.com learners interested in developing operating systems-related skills.

## Prerequisites

There are no prerequisites for this course.

## Certification Alignment

There are no certifications for this course.

## Course Description

This course teaches the fundamentals of operating systems by covering basic concepts and skills needed to explain the purpose and characteristics of operating systems, implement basic operating system security, and explain how to configure mobile device network connectivity and email. The learner is presented with an engaging and exploratory view of operating systems and mobile devices and basic troubleshooting tools and techniques. The course has many features to help learners better comprehend these concepts:

- Rich multimedia content, including interactive activities, videos, and quizzes, addresses a variety of learning styles to help stimulate learning and increase knowledge retention.
- Innovative assessments provide immediate feedback to support the evaluation of knowledge and acquired skills.
- Technical concepts are explained using language that works well for learners at all levels. Embedded interactive activities break up reading of the content and reinforce understanding.
- The course encourages learners to consider additional education, but also emphasizes applied skills.

## Course Objectives

The goal of this course is to provide the learner with an engaging, exploratory view of operating systems and mobile device connectivity, including Windows, Linux, Android, and iOS. The online course materials assist learners in communicating their knowledge and desire to specialize in operating system-related configuration and security.

Upon completion of the Operating Systems Basics course, learners can perform the following tasks:

- Use Windows administrative tools.
- Implement basic Linux security.
- Explain how to configure network connectivity and email on mobile devices.
- Explain the purpose and characteristics of mobile operating systems.

## Minimum System Requirements

This course was design for using any computer, laptop, tablet, or mobile phone.

## Recommended Hardware Device Requirements

For the best learning experience, we recommend using a computer or mobile device with high-speed internet access

## Course Outline

This course provides a comprehensive introduction to operating system configuration, administration, file systems, mobile device connectivity, and security.

**Table 1: Module Title and Objective**

Module Title / Topic Title	Objective
Module 1: The Windows Operating System	
1.0 The Windows Operating System	Use Windows administrative tools.
1.1 Windows History	Describe the history of the Windows Operating System.
1.2 Windows Architecture and Operations	Explain the architecture of Windows and its operation.
1.3 Windows Configuration and Monitoring	Use Windows administrative tools to configure, monitor, and manage system resources.
1.4 Windows Security	Explain how Windows can be kept secure.
Module 2: Linux Overview	
2.0 Linux Overview	Implement basic Linux security.
2.1 Linux Basics	Explain why Linux skills are essential for network security monitoring and investigation.
2.2 Laptop Wireless Configuration	Use the Linux shell to manipulate text files.
2.3 Linux Servers and Clients	Use the Linux command line to identify servers that are running on a computer.
2.4 Basic Server Administration	Use commands to locate and monitor log files.
2.5 The Linux File System	Use commands to manage the Linux file system and permissions.
2.6 Working with the Linux GUI	Explain the basic components of the Linux GUI.
2.7 Working on a Linux Host	Use tools to detect malware on a Linux host.

Module 3: Mobile Device Connectivity	
3.0 Mobile Device Connectivity	Explain how to configure network connectivity and email on mobile devices.
3.1 Wireless and Cellular Data Network	Explain how to configure wireless and cellular data settings.
3.2 Bluetooth	Explain how to pair Bluetooth devices.
3.3 Email Configuration	Explain how to configure email settings.
3.4 Mobile Device Synchronization	Explain how to synchronize data.
Module 4: Mobile Operating Systems and Security	
4.0 Mobile Operating Systems and Security	Explain the purpose and characteristics of mobile operating systems.
4.1 Android Versus iOS	Compare the Android and iOS operating systems.
4.2 Mobile Touch Interface	Describe the features of the Android and iOS touch interfaces.
4.3 Common Mobile Device Features	Describe operating system features that are common among mobile devices.
4.4 Passcode Locks	Explain how to configure various types of passcode locks.
4.5 Cloud-Enabled Services for Mobile Devices	Describe Cloud-enabled services for mobile devices.
4.6 Mobile Device Software Security	Describe software security for mobile devices.