

Computer Hardware Basics

Scope and Sequence

Version 1.0

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Target Audience

The Cisco® Computer Hardware Basics course is designed for SkillsForAll.com learners interested in specializing in computer-related professions.

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 computers and mobile devices by covering basic concepts and skills needed to install components to build, repair, or upgrade personal computers. The learner is presented with an engaging and exploratory view of computers and mobile devices, the components that comprise them, how they work, 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 computers and mobile devices, including desktop and laptop computers, and other mobile devices such as tablets and mobile phones. The online course materials will assist learners in communicating their knowledge and desire to specialize in computer-related professions.

Upon completion of the Computer Hardware Basics course, learners can perform the following tasks:

- Install components to build, repair, or upgrade personal computers
- Explain the features and functions of laptops
- Explain the features and functions of other mobile devices

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 the components, tools, and troubleshooting procedures that are critical for computer hardware operation and maintenance.

Table 1: Module Title and Objective

Module Title / Topic Title	Objective
Module 1: Personal Computers	
1.0 Personal Computers	Install components to build, repair, or upgrade personal computers.
1.1 General and Fire Safety	Define general and fire safety standards.
1.2 Personal Computers and Safety	Explain how to keep personal computer components safe.
1.3 Computer Disassembly	Disassemble a PC.
1.4 Open the Case and Connect the Power Supply	Connect the power supply.
1.5 Install Motherboard Components	Install the motherboard components.
1.6 Install Drives and Adapter Cards	Install the internal drives and adapter cards.
1.7 Install Cables and Complete Assembly	Connect the computer components with appropriate cables.
Module 2: Laptops	
2.0 Laptops	Explain the features and functions of laptops.
2.1 Laptop Components	Describe the features of laptop components.
2.2 Laptop Wireless Configuration	Explain how to configure wireless communication on laptops.
2.3 Preventive Maintenance for Laptops	Explain common preventive maintenance techniques for laptops.
Module 3: Other Mobile Devices	
3.0 Other Mobile Devices	Explain the features and functions of other mobile devices.
3.1 Mobile Device Overview	Describe the features of mobile devices.
3.2 Other Mobile Device Hardware	Describe common mobile device hardware and preventive maintenance.