

INSIDE THE PC

COURSE OVERVIEW

This course provides insight into the PC family. The course focuses on the exploration of the PC including the hardware and its interior as well as concentrating on the peripheral devices, installation of various parts of a computer and PC Boot Process. Single unit is dedicated to printers and working of Laser printer. Course is written in a conversational style, which is easy to understand. Topics are divided logically beginning with

basic hardware information and becoming increasingly more complex. Pictures, graphs, and tables are used frequently so that it helps in the learning process. Last but not the least there is a unit on PC Performance, maintenance and Safety.

This course is the first step towards becoming a success Hardware Engineer and covers the hardware section of the popular Vendor Certification(Comptia A+) in detail.

SYLLABUS**3E.133 INSIDE THE PC
Content**

Identify the names, purpose and characteristics of system modules. Recognize these modules by sight or definition. Identify the names, purpose and characteristics of common peripheral ports, associated cabling, and their connectors. Recognize ports, cabling and connectors by sight.

Motherboard architecture and various components. Distinguish between the popular CPU chips in terms of their basic characteristics. Identify the types of RAM , form factors, and operational characteristics, PC Boot Process.

Identify proper procedures for installing and configuring common IDE devices. Chose the appropriate installation or configuration sequences in given scenarios. Recognize the associated cables.

Printer technologies. Electrophotographic (EP) Print Process. Recognize common printer problems and techniques used to resolve them.

Identify proper procedures for installing and configuring common peripheral devices. Choose the appropriate installation or configuration sequences in given scenarios. Determine the issues that must be considered when upgrading a PC. In a given scenario, determine when and how to upgrade system components.

Identify procedures to optimize PC operations in specific situations. Identify the various types of preventive maintenance measures, products and procedures and when and how to use them. Identify the various types of safety measures and when and how to use them.