

Certificate in IT Hardware Fundamentals and Troubleshooting



Are you a convergent thinker ? How about troubleshooting tricky hardware setbacks ? The Certificate in IT Hardware Fundamentals and Troubleshooting is a program designed to provide you with the foundational knowledge and skills required for managing and troubleshooting computer hardware. This comprehensive course provides a deep understanding of computer hardware, covering its fundamental components, interfaces, installation processes, configuration settings, storage devices, and system components. Learners will gain knowledge of the roles and functions of key components like the CPU, memory, storage devices, and motherboard, as well as different hardware interfaces and connection standards. The course also covers the practical aspects of installing and configuring computer hardware, including the motherboard, storage devices, and peripherals.

Syllabus & Skills covered (60 hours)



- The functions and roles of key components like the CPU, memory, storage devices, motherboard, and peripherals.
- The process of assembling and disassembling computer systems, installing hardware components, and troubleshooting compatibility issues.
- Creating maintenance plans for computer systems, including routine tasks and upgrades.
- Designing installation and configuration procedures for printers on different operating systems.
- Developing setup and configuration protocols for various hardware gadgets, including network connectivity, software updates, and troubleshooting.
- Demonstrating the ability to install hardware components and configure settings.
- Installing operating systems such as Windows and Linux, and integrating device drivers.
- Analyzing and troubleshooting common hardware installation issues.
- Understanding different types of CCTV and projectors, their principles of operation, component functionalities, and selection criteria.

Career Opportunities



- **IT Support Assistant**
- **Desktop Support Administrator**
- **Hardware Technician**
- **Help Desk Technician**

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