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Oxford Certified

Hardware and Networking Professional - 6 Months

Authorised Grade A Training Partner of National Skill Development Corporation,
Ministry of Skill Development, Government of India.

Introduction to Hardware

- ★ Definition and Types
- ★ Hardware vs. Software
- ★ Interacting with Windows
- ★ Evolution of Hardware
- ★ Key Hardware Components
- ★ Role in System Performance



Basic Electronics & HW Parts

- ★ Active & Passive Components
- ★ Binary Number System
- ★ Motherboard Types & Form Factors
- ★ Chipsets and Buses
- ★ RAM Types and Functions
- ★ HDD vs. SSD
- ★ PSU Basics and Wattage

Input & Output Devices

- ★ Keyboards, Mice, and Touchscreens
- ★ Monitor Types and Resolutions
- ★ Printers and Scanners
- ★ Audio Devices and Projectors
- ★ GPU Types and Interfaces
- ★ Monitor Connectivity (HDMI, DP)
- ★ Game Controllers and Peripherals



BIOS, UEFI & OS Install

- ★ Accessing and Configuring BIOS
- ★ BIOS vs. UEFI Comparison
- ★ Firmware Updates and Security
- ★ OS Choices (Windows, Linux)
- ★ Preparing Installation Media
- ★ Partitioning and Formatting
- ★ Clean vs. Upgrade Install

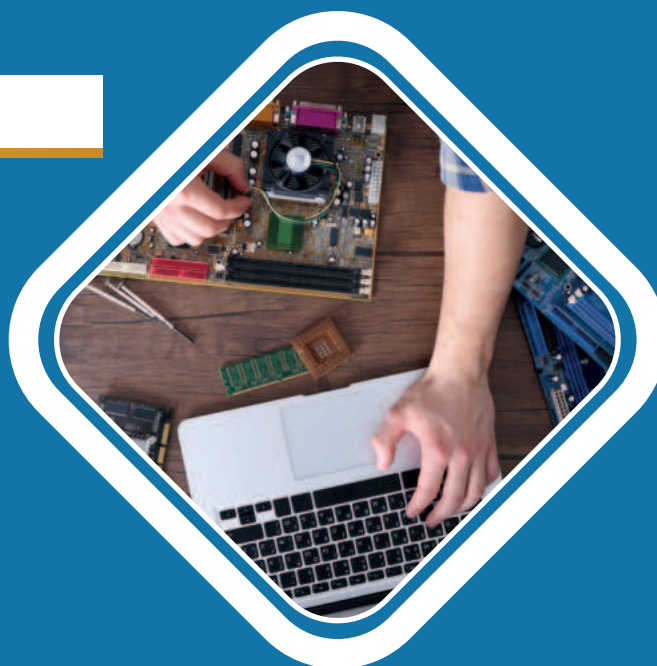


Drivers & Software

- ★ Understanding Device Drivers
- ★ Installing and Updating Drivers
- ★ Install Application software
- ★ Managing Installed Software
- ★ Software Licensing and Keys
- ★ Removing Unwanted Programs

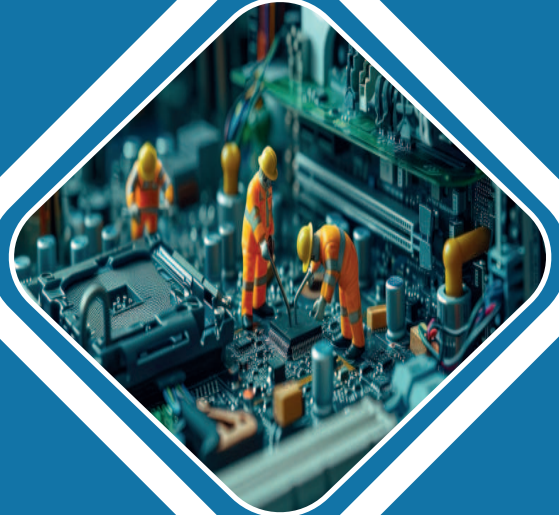
Hardware & Laptop Troubleshooting

- ★ Diagnosing Hardware Failures
- ★ Power and Boot Issues
- ★ Memory and Storage Problems
- ★ Common Laptop Issues
- ★ Testing Laptop Power Supply
- ★ Using Diagnostic Tools
- ★ Common Troubleshooting Tips



Printer Repair & PC Security Setup

- ★ Common Printer Issues
- ★ Fixing Connectivity Problems
- ★ Replacing Printer Cartridges
- ★ Troubleshooting Print Quality
- ★ User Account Management
- ★ Configuring Password Policies
- ★ Enabling Two-Factor Authentication



Data Backup, Recovery & Antivirus

- ★ System Restore Points Setup
- ★ Recovering Lost Data
- ★ Restoring OS from Backup
- ★ Importance of Antivirus Software
- ★ Removing Malware and Viruses
- ★ Real-Time Protection Features



Networking Basics

- ★ Definition of Networks
- ★ Types of Networks (LAN, WAN)
- ★ Importance of Networking
- ★ Network Topologies
- ★ Peer-to-Peer Networks
- ★ Client-Server Networks

OSI Model

- ★ Overview of OSI Layers
- ★ Application Layer
- ★ Transport Layer
- ★ Network Layer
- ★ Data Link Layer
- ★ Physical Layer

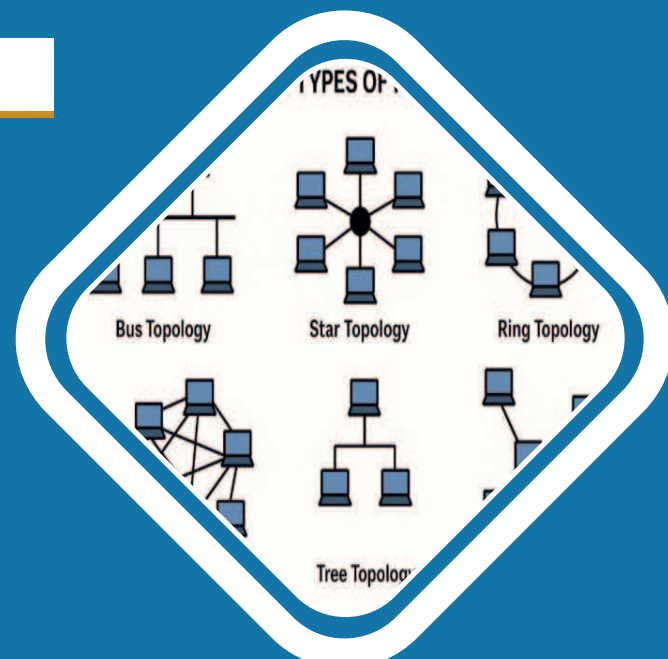


Networking Devices & Cabling

- ★ Network Devices
- ★ Types & Uses of Devices
- ★ Types of Cables (Ethernet)
- ★ Cable Categories (Cat5, Cat6)
- ★ Fiber Optic Cabling
- ★ Twisted Pair vs. Coaxial
- ★ Wireless signals & its types

Network Topologies & Protocols

- ★ Network topology
- ★ Physical & Logical Topologies
- ★ Define Idle Topology & Its Uses
- ★ HTTP vs. HTTPS
- ★ SMTP and POP3 for Email
- ★ Telnet and SSH (Secure Shell)
- ★ ICMP and Ping Operations



IP Addressing

- ★ Understanding IP Addresses
- ★ Public vs. Private IPs
- ★ Subnet Mask Explanation
- ★ IPv4 Addressing Scheme
- ★ Need for IPv6
- ★ IPv6 Address Structure
- ★ IPv6 Adoption Challenges



Network Configuration

- ★ Peer to Peer Network
- ★ Resource Sharing
- ★ Mapping of Data
- ★ Remote Desktop
- ★ Remote Assistance
- ★ Local users, Group and managing

Wireless Networks

- ★ Types of Wireless Networks
- ★ Wi-Fi Standards (802.11a/b/g/n)
- ★ Wireless Access Points
- ★ Wireless Security (WPA, WPA2)
- ★ Wireless Mesh Networks
- ★ Interference & Range Issues



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Network Security & Troubleshooting

- ★ Introduction to Firewalls
- ★ Types of Firewalls
- ★ DMZ (Demilitarized Zone)
- ★ Common Network Issues
- ★ Ping and Traceroute Usage
- ★ Diagnosing Connectivity
- ★ Fixing Slow Networks



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