

Quality Education

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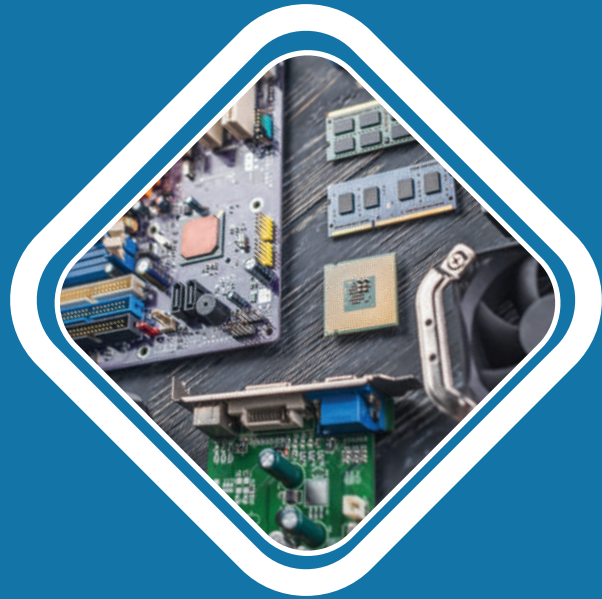
Oxford Certified

**Hardware- Networking with CyberSecurity
& Cloud Computing Professional - 12 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
- ★ Data ethics
- ★ 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

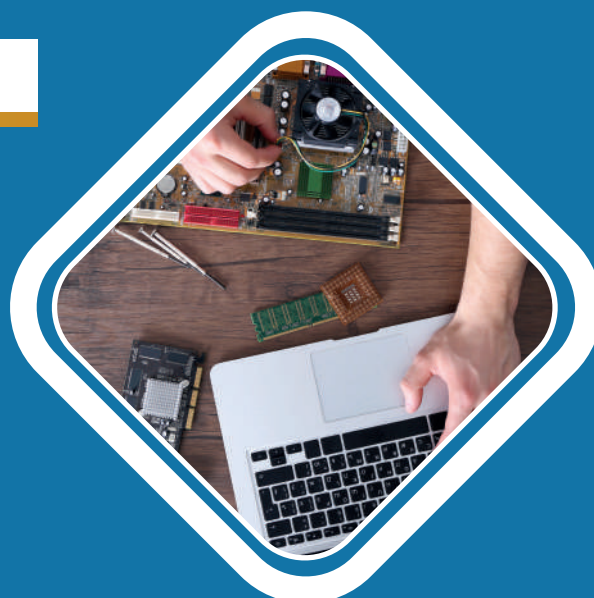


Drivers & Software

- ★ 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



Network Security & Troubleshooting

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



Intro to Cybersecurity

- ★ Definition of Cybersecurity
- ★ Importance of Cybersecurity
- ★ Key Threats and Risks
- ★ Cybersecurity Objectives
- ★ Evolution of cybersecurity
- ★ Cybersecurity principles



Types of Attacks & Endpoint Security

- ★ Malware (Virus, Worms)
- ★ Phishing Attacks
- ★ DoS, MITM & SQL Injection
- ★ Antivirus and Antimalware
- ★ Endpoint Detection & Response
- ★ Secure Device Configuration
- ★ Mobile Device Security



Security Policies & Disaster Recovery

- ✧ Importance of Policies
- ✧ Acceptable Use Policy
- ✧ Data Classification Policy
- ✧ BYOD (Bring Your Own Device)
- ✧ Disaster Recovery Planning
- ✧ Backup and Restore Procedures
- ✧ Data Replication Methods



Social Engineering

- ✧ Types of Social Engineering
- ✧ Phishing and Spear Phishing
- ✧ Pretexting and Baiting
- ✧ Impersonation Techniques
- ✧ Mitigating Social Engineering
- ✧ Training Against Social Threats

Cloud Computing Intro

- ✧ Definition of Cloud Computing
- ✧ Public vs. Private Cloud
- ✧ Cloud Service Models (IaaS, PaaS, SaaS)
- ✧ Cloud Storage Services
- ✧ Cloud Virtualization Techniques
- ✧ Benefits of Cloud Computing



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