1. Course Details:

Course Code : COEL-005
Course Title : Wired and Wireless Hardware Maintenance
Course Duration : 5 Days

2. Course Overview

- The Course in Hardware and Networking helps students become industry ready forcareers in Hardware and Networking immediately post completion of the course.This coursewill providing trainees knowledge in memory management, upgrade ofcomputer systems, system optimization, troubleshooting faults, repairs and servicing of computers,printers and uninterrupted power supply units in an organization or a set up.

3. Learning Outcomes:

- Understand the introduction to computer systems
- Understand and apply health and safety concept
- Understand how the computer works
- Understand and apply the principles of static electricity
- Undertake hardware installation
- Install hardware devices
- Install anti-virus programs
- Upgrade and maintain the concept of computer systems
- Interpret the electronic aspect of computer hardware
- Understand print technology
- Understand and apply drawing, science and calculation for computer application

4. Course Contents:

Introduction about Computer:

- Basics of computer
- Organization of computer
- Software and hardware
- Input/output devices

Basic networking concepts:

- Network topologies:
- LAN, WAN, MAN, PAN, CAN
- Networking Model
- The OSI model
- TCP/ IP Model
- Network adapters
- Introducing protocols
- Cabling and troubleshooting

Introduction to various networking devices:

- Routers
- Switches
- Modems
- Hubs etc…
- Wired and Wireless technology

Inside the PC:

- Opening the PC and identification
- Study of different blocks
- Assembling and disassembling

Network basic and configuration:

- Setting IP addresses
- Sharing files and folders
- Network troubleshooting
- PING test, ipconfig etc…

Introduction to servers and network security:

- Types of servers:
- Files servers
- Email Servers
- Proxy servers etc…
- Basics of Internet and Intranet
- Types of Internet connections

- Dialup, Broadband, Leased Line, Wi-Fi, Wi-Max, 2G, 3G, 4G, WWW, E-mails, Search Engines Social Networking
- Cloud application
- Audio-video Conferencing
- Voice over Internet Protocol (VOIP)
- Recovery and backup
- Essential security measures

5. Our Methodology:

- Make coaching and monitoring innovative and using modern
- Media training also using on the go training by using interactive means and focusing on
- The exercises, practical applications and real situations study.
- Live delivery method, instructor-led training.
- Experienced consultant, trainers, and professional.
- Qualified trainer with high-level experience

6. Attendance Reports:

- Send daily attendance reports to trainingdep
- Send full attendance report to training dep. by the end of thecourse
- Attend 100 % from the course days also providedaily
- Issue attendance certificate for participant who attend minimum 80% from the course duration

7. Pre/Post Reports:

- Pre- assessment before starting training.
- Post assessment after finish training
- Full report for the deferent between Pre-& Post assessment

8. Who Should Attend?

- Technicians
- Supervisors