



## Course Overview

The Objective of the CHM O Level course is to train 10+2 Qualifiers to acquire basic knowledge in computer hardware & peripherals for installation, trouble shooting and maintenance, system software, database management, data back-up, disaster prevention, diagnosis, rectification of faults besides personality

**Duration:** 1 Year

**Eligibility:** 10+2/ITI/Polytechnic Diploma

**NSQF Level:** 4

## Objective of the CHM 'O' Level Course

- Technical support
- Help desk technician
- Network support technician
- IT technician
- Hardware Teacher
- System Administrator
- Network Administrator
- System Engineer
- Technical Engineer
- Computer Hardware Engineer
- Network Engineer

## Syllabus for CHM 'O' Level Course -

### Module 1: H1: PC Hardware & Components

- PC Hardware
- Primary Memory
- Secondary Storage
- Power Supply
- Cabinet types
- Practical-I (Hardware Components Identification)
- Practical-II (System Integration)
- Practical-III (OS and Application Software Installation)
- Practical-IV (Troubleshooting)

### Module 2: H2: PC Architecture

- Introduction to Microprocessor
- ARM PROCESSORS
- Troubleshooting & General PC Problems
- Practical's

### Module 3: H3: Advanced networks and networking peripherals

- Networking Basics
- Network components & Management
- Data Communication, protocols and filters
- Transmission Media and Networking Connectivity Hardware
- Types of Internet connections and protocols
- Network services
- Network security
- Practical's

#### **Module 4: H4: Operating System, Software & Tools**

- Basics of Operating System
- Memory management and file systems
- Operating system Back-up and restore
- Advanced operating system concepts
- Viruses & anti-viruses
- Operating system security
- Introduction to Software and software engineering
- Practical's

#### **Module 5: H5: Personality Development**

- Personality Development
- Self Esteem and Stress Management
- Communication
- Emergencies and management
- Environmental Studies
- Practical's

#### **Module 6: H6: Devices and Applications**

- Input Devices and Applications
- Display devices classification and its use
- Output Devices and Applications
- Secondary Storage Device media and Applications
- Practical's