



GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
DIRECTORATE GENERAL OF TRAINING

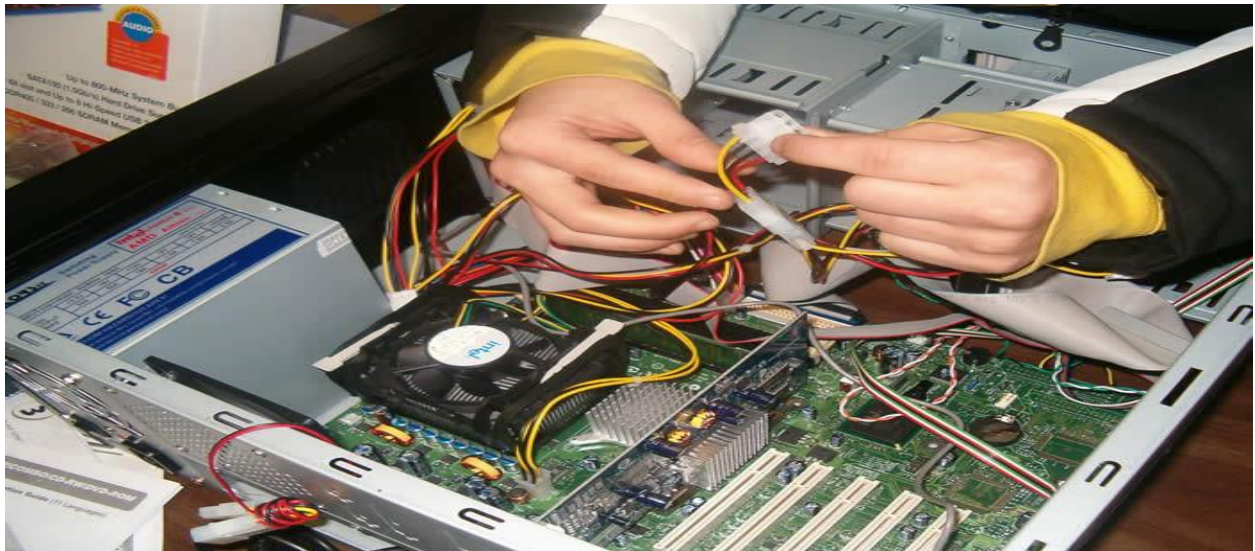
COMPETENCY BASED CURRICULUM

COMPUTER HARDWARE & NETWORK MAINTENANCE

(Duration: One Year)

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL- 4



SECTOR –IT & ITES



Directorate General of Training

COMPUTER HARDWARE & NETWORK MAINTENANCE

(Non-Engineering Trade)

(Revised in 2019)

Version: 1.2

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL - 4

Developed By

Ministry of Skill Development and Entrepreneurship

Directorate General of Training

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1. COURSE INFORMATION

During the one-year duration of Computer Hardware and Network Maintenance trade a candidate is trained on professional skill, professional knowledge & Employability skill related to job role. In addition to this a candidate is entrusted to undertake project work and extra-curricular activities to build up confidence. The broad components covered under Professional Skill subject are as below:

During the period of one year the trainee learns about safety and environment, use of first aid kit. They learn about basics of electrical and electronic component related to hardware and networking system. They will learn to assemble and repair desktop PC with all its internal components. Trainees will be able to install different types of operating system and all other application software, customization of OS, updating device driver, setting firewall security, junk file removal, data backup and data recovery techniques. They also learn to assemble and repair Laptop PCs and its internal hardware components. The trainees also learn to work on office package (word, excel, power point). At mid of the year trainees can go on industrial visit or projects specified in the syllabus. The trainee learns to install and work with Linux environment. They will be able to install and configure different types of printer, plotter, scanner and troubleshoot its faults. The trainees will learn to setup and configure networking system using various network devices using crimping, punching, setting IP addressing techniques. They are able to share and control resource and internet connection over network. They learn to secure networking system from different types of attacks. They also learn to install and configure Windows and Linux server. Finally, the trainees will learn about internet and different types of web browsers. At the end of the year trainees can go on industrial visit or projects specified in the syllabus.

5. LEARNING OUTCOME

Learning outcomes are a reflection of total competencies of a trainee and assessment will be carried out as per the assessment criteria.

5.1 LEARNING OUTCOMES (TRADE SPECIFIC)

1. Perform all the functions with Electrical and Electronic Components related to Computer and Networking system drawing following safety precautions.
2. Assemble and repair Desktop Computer with all its hardware components.
3. Install different Operating System and all other application software.
4. Customize Operating System and maintenance of system application software.
5. Assemble and repair Laptop and its hardware components.
6. Perform the operations of office package (word, excel, power point).
7. Install Printer, Scanner and troubleshoot their faults.
8. Set up and configure Networking System using various network devices.
9. Share and control resource and Internet connection through network.
10. Implement Network Security to protect from various attacks on networking.
11. Install and configure Windows and Linux server.
12. Browse internet and communicate through email.