



National Institute of Electronics and Information Technology
Short Term Courses

Name of the Course: Certificate course in Mobile Repair and Maintenance

Course Code: STC/HRMT/CT04

Duration of the Course (in hours): 80 hours

Yearly Session: Jan to Mar session, April to June session, July to September session, October to December session.

Fees: 7475/- (Including Registration fees, Course fees, Examination fees, Course Material) which is inclusive of the present Service Tax. *Note- Registration fees, Course fees, Examination fees is free for SC/ST candidates.*

Minimum Eligibility Criteria and pre-requisites, if any : 10th Standard

Objective of the Course:

The Course has been designed to provide knowledge on Mobile Repair & Maintenance.

Learning Outcomes:

The Students shall be able to Repair Mobile hand sets

Expected Job Roles: Mobile Service Technician

Outline of Course

S. No	Topic	Minimum No. of Hours
A.	Electronic Section	
1.	Introduction to Tools	2 hrs
2.	Basic electronics	4 hrs
3.	Soldering and desoldering components	2 hrs
4.	Basic components of mobile phone	2 hrs
5.	Mobile disassembling	2 hrs
6.	Battery and charger	2 hrs
7.	Relationship between hardware and software	3 hrs
B.	Software Section	
1.	Introduction	1 hrs
2.	Computer Organization	3 hrs
3.	Operation system	2 hrs

4.	Data Communication and Computer Network	4 hrs
5.	Software Flashing	3 hrs
Theory / Lecture Hours:		30 hrs
Practical / Tutorial / Lecture Hours:		50 hrs
Total Hours:		80 hrs

Recommended Hardware: SMD Rework station, Soldering Iron 25 watt with pointed tip, Ultrasonic cleaner, Soldering Iron 25 watt with pointed tip, Temperature control (micro) Soldering Iron or Soldering-die soldering Station, Digital Multimeter, DC Power Supply, BGA Tool kit, Opening tool kit, Screw Driver Set Tweezers, Mobile PCB Holder, SMD flux (Paste), Soldering Flux (Cream base), Liquid Paste for soldering and die soldering+ Soldering Lead + Die soldering strip, Acetone-PCB cleaner or IPA (isopropyl alcohol), DI water-(Distilled water), PC Computer, for software repair and maintenance of mobile phone, Flashing Cables or Universal Jig

Recommended Software: Appropriate software

Books recommended for reference and reading:

1. Mobile Phone Total Hardware Solution – Institute Edition, Publishers: GT Publications
2. Mobile Phone Total Software Solution – Publishers: Merut Publications