Tablet PC Repairing Course

1 BASIC ELECTRONICS

- AC, DC, Current, Voltage, Ampere
- Types of circuit, material
- Measurement unit
- Use of multi-meter, digital analog multi-meter.
- How to check AC, DC, and OHMs resistance
- Different SMD components
- Resistor, Diodes, Capacitors
- Inductors, Transformers, Transistors
- MOSFET

2 INTRODUCTION OF TABLET PC

- Basic working detail of laptop and mobile phones
- Network section of mobile phones
- Hard disk, ram, CPU, WIFI, Bluetooth section of laptop
- Difference between computer,   laptop, tablet pc , iPAD, mobile, smart phone
- Basic operating of tablet pc
- Menu, setting, Bluetooth, GSM, CDMA, etc.

3 TYPES OF OPERATING SYSTEMS IN TABLET PC

- Android, operating system in tablet
- 4.0.X ice cream sandwich
- 3.X.X honey comb
- 2.3.x ginger bread
- 2.2 froyo
- Basic used detail of android

4 FORMATTING INSTALLING OPERATING SYSTEMS IN TABLET PC

- FACTORY RESET,
- WIPES.
- Firmware update from SD card
- How to find firmware thru PCB
- Flashing thru ODIN in Samsung
- Flashing thru IUW in HCL tablet EM 73
- Boot option in HCL standard boot, recovery boot, fdwn boot , fast boot
- Installation of operating systems in tablet Pc
- Android operating system
- Upgrading operating system
- Changing operating systems

5 APPLICATION INSTALLATION

- Application installation on tablet pc
- Application install from market

- Application install from memory card
- Troubleshooting of Operating systems.
- Troubleshooting of Application software.
- Troubleshooting of Tablet PC

6 TEARDOWN / DISMENTAL TABLET PC
- Basic video of opening and closing demo
- Assembly & disassembly of tablet pc demo on 3 models

7 IDENTIFICATION PARTS OF TABLET PC
- Adapter/charger
- Battery
- Ram &Rom
- Keyboard of tablet pc
- Display windowsTouch screen/ touchpad
- Display modules LCD / TFT/ LED Display
- Primary Camera /secondary camera
- Motherboard main PCB
- Processor
- Antenna Carrier
- Loudspeaker
- LED PCB
- Hard Disk / memory card flash chip
- BIOS / CMOS setting
- Testing of parts

8 COMPONENT CHECKING & IDENTIFY
- Identify damaged and ok component
- Removing and Inserting component practice

9 TABLET PC REPAIRING CONCEPTS
- Adapter Repairing concepts
- Battery Repairing boosting concepts
- Inverter Section and CCFL Testing
- Hard Disk / Internal Hard disk
- RAM and ROM
- Touchpad

10 BLOCK DIAGRAM OF TABLET PC
- Understanding motherboardblock diagram of Tablet PC
- Different section of tablet pc
- Top view of motherboard
- Bottom view of motherboard
- Identify each chip and understand different section
- Working detail of tablet pc motherboard

11 DIFFERENT SECTION OF TABLET PC

- Power section of tablet pc
- Initial failure
- Charging section
- SIM section
- Microphone section
- Speaker section
- Bluetooth WIFI section
- LCD section & troubleshooting of tablet pc
- Touchscreen section & troubleshooting in tablet pc
- Light sensor
- Camera not work front/ back
- GSM 850/ 900 / 1800 /WCDMA section

12 UNDERSTANDING SCHEMATIC DIAGRAM OF TABLET PC

- Understanding Circuit diagram of power section
- Voltage measurement in Tablet pc
- Troubleshooting power on failure in Tablet
- Use of Debug card post error code.
- Common problem of different motherboards

13 PROBLEM AND SOLUTION STEPS OF TABLET

- Power on does not work
- Tablet initial failure
- Abnormal charging
- Insert SIM cart (after inserting SIM)
- Microphone not work
- Speaker not work
- Bluetooth WIFI not working
- LCD is not work after PWR ON
- Touch screen does not work
- Camera does not work
- Network Not work (GSM, 850,900,1800, WCDMA)
- Using Oscilloscope (CRO)

14 REPAIRING AND BGA REWORK OF TABLET PC

- Removing ICs by Hot Air Gun Machine (SMD   Machine).
- iCs re-balling by BGA machine. Concept