



INTERSOFT

TECHNICAL INSTITUTE

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IPHONE REPAIR TRAINING COURSE MATERIAL

MODULES	COURSES
MODULE 6.1	BASIC IPHONE UNDERSTANDING
MODULE 6.2	TRACING IPHONE PCB WITH SCHEMATIC AND BOARD VIEW
MODULE 6.3	FAULT FINDING STEPS OF IPHONE

Terms & Condition:-

- ⇒ Registration Fees 1000/- Extra On Any Course
- ⇒ Reserve Seat before class and take online class
- ⇒ Course content, Fees & chapter may be change without prior notice

MODULE C1:

BASIC iPHONE

1. iPHONE WORKING CONCEPT BLOCK DIAGRAM, WHAT ITS EQUIRED, ALL SECTION EXPLAIN, WORKING IDEA OF ALL COMPONENTS, BLOCK DIAGRAM

- Battery , charger, power chip, sim , cpu, nand, flash, lcd , touch pad, audio , , crystal,
- Antelna1, antenna 2, high band, low band, very low band, ext antenna, antenna switch module, Networks, audio amp , mic , speaker, hands free, vibrator,
- Camera , flash, Bluetooth , wifi, radio,
- Sensors, gyro , magnet , finger , etc

2. iPHONE DISMENTING (TEARDOWN) AND UNDERSTAND PARTS, CABLE, SOCKET CONNECTION

- Pcb circuit board , display with touch pad , back cover
- Loud speaker, ringer , speaker , sim tray,
- Primary camera module, Battery
- Main i/o , usb , vibrator, speaker belt
- Camera flash power button belt
- Volume up/ down ringer/silent pcb belt
- Ambient light sensor microphone pcb module
- Secondary camera module pcb
- Loudspeaker receiver module
- Home button / finger print sensor with belt

3. TESTING OF PARTS

- Ringer, Vibrator, SPEAKER, on off switch Working idea of all components , block diagram

4. iPHONE PCB WORKING CONCEPT, POWER CLOCK , SIGNALS, ETC

- Block diagram of iphone pcb
- Connector Types, IC types, and detail , working concept of circuit

MODULE 6.2:

TRACING IPHONE PCB WITH SCHEMATIC AND BOARD VIEW

5. BASIC ELECTRONICS AND UNDERSTAND SMALL COMPONENTS CONNECTION DETAIL

- a. Understand resistor , Capacitor Diode
- b. Transistor, Mosfet, Fuse , coil

6. IPHONE SCHEMATIC DIAGRAM AND TRACING STEPS

- a. Download schematic diagram from internet
- b. Open schematic and understand symbol components ic connection page no
- c. Values of components how to find components, search etc
- d. Understand different chip and working idea and signals detail

7. IPHONE BOARD VIEW DIAGRAM VIEW WITH SCHEMATIC DIAGRAM ZXW

- a. How to use ZXW dongle and
- b. How to find components, pins etc
- c. How to match with pcb and schematic diagram

8. IPHONE POWER ON SEQUENCE AND POWER CONSUMPTION

- a. Basic demo of power on sequence on chart
- b. Different stage of iphone mobile
- c. Power off (only battery connected not power on)
- d. Charging on (charger also connected but not power on
- e. After Power on (after press power button)
- f. Standby idle, Call time
- g. When required voltage (some device when we press on then supply gets)
- h. Direct Shorting (shorting on board), Indirect shorting, Circuit Open
- i. Power consumption values in short open or close
- j. Case understand by power supply unit

9. IPHONE SECTION TRACING

- a. Battery section , Usb Charging and power section
- b. On off section , RTC crystal section
- c. Power ic section supply different voltage
- d. Reset signals, LCD section, LCD back light section
- e. Camera section front rear , Flash light section
- f. Cpu section , Nand section
- g. Audio and audio amplifier section

- h. Mic1 , mic 2 mic 3 speaker, hands free, section
- i. Bluetooth wifi section, Crystal types, Simcard section
- j. Radio chip section, Sensors
- k. Barometrix, Magnetic, Axis
- l. Home button volume up down , vibrator on switch section
- m. Network section , Antena switch section, Gsm , Rf parts

MODULE 6.2:

FAULT FINDING STEPS OF iPhone

10. iPhone FAULT IDENTIFY

- a. iPhone standby power (no consumption, no charge, no power)
- b. iPhone power on steps and problem (after power button press)
- c. press the power button no response no current
- d. iPhone does not boot forced DFU display does not recognize this USB and other fault repair
- e. iPhone USB CHARGING problem
- f. iPhone camera can not turn on the camera not open a photographic
- g. iPhone boot no service / no network
- h. iPhone fault: boot no Type of service: a repair
- i. iPhone display lcd back light is power off , back light power supply problems
- j. iPhone without flash , iPhone Power Card System
- k. iPhone computer not connect with iPhone
- l. iPhone Enter the WIFI password has been an error

11. IC , COMPONENTS , SOCKET REMOVING AND INSERTING PRACTICE

- a. Removing connector practice
- b. Removing and inserting socket
- c. Removing and inserting chip
- d. Removing pcb cover
- e. Removing and inserting
- f. Finding shorting components

12. COMMON PROBLEM AND JUMPER STEPS

- a. Basic jumper with common problems

13. FAULT IDENTIFY AND FLOW CHART

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