Schedule for fast-track course 12 days

DESKTOP COURSE 6 Days.
1st Day -
Basic electronics & Microcomponents
AC & DC current, intro & testing of Microcomponents, concept of load & source, IC power supply, RTC, concept of Open-short-ground, Logic gates, using multicenter, signal testing using frequency meter

2nd Day -
Practical of using tools
Using SMD Rework Station (BASIC) & replacing components, Jumpering using Solder Iron (BASIC)

3rd Day -
Desktop motherboard
Block diagram, layout & functions of all IC on the circuit.

4th Day –
Power section functions & fault testing
PWM section, RAM power supply & RAM regulator,
Cke0, Cke1, Ras, Cas, WE, Vddspd voltage signal testing
Power Logic Sequence of desktop motherboard

5th Day -
Practical session for replacement of IC
Desktop motherboard testing
IO port testing,
PCI SLOT testing- aux, reset, BIOS signal testing
MCH & ICH testing, regulator testing, power logic sequence testing, IO chip testing, clock synth IC testing, RTC Crystal oscillation testing… etc.

6th Day
Fault finding & troubleshooting
Solution to different faults, using tester cards for RAM & CPU
Testing using Debug card

LAPTOP COURSE 6 Days
7th Day -
Assembly & disassembly of laptop using Service Manual
Sub topics:
Universal inverter replacement for LCD
Keyboard repairing

8th Day –
Layout of circuit board & daughter boards
Function of ICs- Gmch, ich, pch, embedded controller...
Functioning of all peripherals & different slots

9th Day –
Power section
Volt IN, Power Rail
PWM section testing & faults
RAM power section, RAM regulator testing & faults
Primary step down section testing & faults
Secondary step down section testing & faults
Charging & discharging section testing & faults

10th Day –
Schematic reading
Reading signals of the system board
Power Logic Sequence of laptop System board
System board Signals-CPU signals, MCH signals, ICH signals, PCH signals, Embedded controller signals,
LCD signals, HDD signals, Pciex16 graphics signals,...etc.
Trouble shooting

11th Day -
Using BGA Rework station- Reballing of BGA IC
Using SMD Rework Station (ADVANCE) - Replacement of Gate chips & QFN chips
Professional Soldering (ADVANCE) - Process of Tinning, Wetting, Reflow, Wicking

12th Day-
Practice

Class Timing:

11: am to 2: pm class

2: pm to 2:20pm lunch break

2:30pm to 4pm class

4pm to 4:15pm Tea break

4:15pm to 5pm (Mobile Class)