

Syllabus for Mobile Handset Repair & Maintenance Course (Handset Repair Engineer Level-II)

Unit I

Introduction to mobile phones, Generations of mobile phones, FHSS networks, GSM, Spread spectrum, CDMA, TDMA & Basic electronics components.

Unit II

Handset Specific operating systems, Handset features & applications, working principle of mobile handset & Components used in mobile handsets.

Unit III

Tools & equipment used for repairing & maintenance of mobile handsets, types of power supply & batteries, boosting a battery, Troubleshooting basics.

Unit IV

Network problems, Power failure (dead), Mobile phone hardware troubleshooting (water damage, hanging, charging & keypad problems), Handsets assembly& disassembly, Soldering & desoldering &SMD rework station.

Unit V

BGA IC's, Basics of Computer, Installation of software, Flashing, PC based diagnostic tools, mobile sets formatting, used of secret codes.

Unit VI

Mobile softwares, Data cable, Card reader, Mobile display, Remove/replace Component & Mobile phone hardware troubleshooting (Troubleshooting through circuit diagram, transmission, transmitter filter, microphone, reception, Antenna, RF power amplifier, local oscillator, Audio IC, speaker, charger etc.).

Unit VII

Reading & writing skills, Communication skills, Time management skills, Team skills, Safety & Security.

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