

Diploma in Mobile Maintenance

Entry qualification: 1. 8th std pass with age at least 14 years.

Duration: 210 hrs.

Terminal Competencies: Candidate will be able to repair 2G and 3G cell phones5.

Contents: Given Below.

Practical Competencies	Underpinning Knowledge (Theory)
<p><i>Practice procedures for safety and health hazards measures</i></p> <p>Operation and setting of cell phone</p> <p><i>Identify various components of mobile handsets</i></p> <p>Replace faulty parts with new parts of mobile phone that can be done without use of soldering</p> <p>Test the battery and battery charger with Multimeter</p> <p>Testing of Mic, speaker and vibrator</p> <p>Soldering and desoldering of various SMD components and select suitable temperature for use.</p> <p>Soldering and desoldering of BGA Ics.</p> <p>Check track continuity and use jumpers for track Problems</p> <p>Apply proper flux and cleaning the cell phone</p> <p>Test and rectify the problems in antenna and antenna switch</p> <p>Identify the fault and test the display interface circuits.</p> <p>Unlock and lock various functions</p> <p>Identify the faults of Network section and voice section and rectify them.</p>	<p><i>Electrical and personal safety, dangers and Preventions</i></p> <p>Introduction to various types of mobile handsets, their description, features & how to use these features</p> <p>Identify the keys and their uses.</p> <p>Explaining of various features of mobile phones and methods of using the same</p> <p>Fault finding and trouble shooting</p> <p>Identify the components used in a cell phone</p> <p>Function of Mic, speaker and vibrator</p> <p>SMD soldering methods</p> <p>Identify BGA Ics.</p> <p>Identify various blocks and their functions</p> <p>Use of various solders , flux and cleaning agents.</p> <p>Use of antenna and antenna switch</p> <p>Functions of display, CPU, memory</p> <p>Various locks used in cell phone</p> <p>Functions of the IF section, COBBA section and PA section. Complete knowledge of Block Diagram, circuit diagram, i.e.,</p> <p>Power Section</p> <p>On/off circuit</p> <p>Net Section</p> <p>Charging Section</p> <p>Software Section</p> <p>25</p> <p>Rectify the faults related to SIM and SIM connector</p> <p>SIM and SIM related</p>