



**BANKERS INSTITUTE OF
RURAL AND ENTREPRENEURSHIP DEVELOPMENT**

RAJENDRANAGAR, HYDERABAD-500 030, A.P.(Regd no.1635/2007)

Sponsored by : Govt. of Andhra Pradesh & Telangana, NABARD, Andhra Bank, Canara Bank,
Corporation Bank, Indian Bank, Indian Overseas Bank, State Bank of Hyderabad

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BASIC ELECTRONIC & MOBILE SERVICING ~ SESSION PLAN

DAY	SESSION PLAN	THEORY HOURS	PRACTICAL HOURS
1	<u>Admission of the Trainees</u>		
2.	<u>Evolution of mobiles</u> <ul style="list-style-type: none"> * Who invented the mobile phone? * How the Phones revaluations occur? * Different type of mobiles names * What are the functions in it? * What are common options in it? 	2hr.	4hr (how to use soldering iron).
3.	<u>What are the parts of our mobile phone and their uses?</u> <ul style="list-style-type: none"> * How many types of O.S used in different types of mobile phones? * Difference between hardware & software * Parts of our mobile phone like MIC, Speaker, Display...ETC Components names and there symbols	2hr.	4hr (how to solder chip level components).
4.	<u>Difference between CDMA and GSM.</u> <ul style="list-style-type: none"> * What is CDMA & GSM what are their advantages * Why we are using this types of mobile phones.... 	2hr.	4hr. “
5.	<u>Difference between A.C. & D.C.</u> <ul style="list-style-type: none"> * Where we use A/C & D/C. * What are the uses of this current? * Type of battery acids their uses * How much voltage is there in working batteries * How much voltage is there in working chargers 	3hr.	3hr. “
6	<u>Problems in our cell phone.</u> <ul style="list-style-type: none"> * What are the problems in hard-ware and soft-ware with explanation * Example: Microphone problem. Speaker problem ETC * soft-ware flashing, unlocking, video and audio converter...ETC 	2hr.	4hr (how to use soldering iron).



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7	<ul style="list-style-type: none"> * <u>What are the tools used in cell phone repairing and their uses.</u> * Tools used in cell phone are Screw driver, Tweezers, Lead, and Paste. How can we use them? * What is android? What are the uses of android? 	2hr.	4hr. “
8.	<u>1st.Test, Introduction of computer</u>	3hr.	3hr.
9.	<u>Resistor.</u> <ul style="list-style-type: none"> * Introduction of resistor Colour coding of resistor * Problems on resistor. * How to identify the chip resistor. 	3hr.	3hr. (how to check the resistor & how to solder the chip level components).
10.	<u>Abbreviations of mobile.</u> <ul style="list-style-type: none"> * Abbreviations of mobile phone setting & symbols * Like battery, Display, keypad, bottom connector...etc. 	2hr.	4hr (soldering of chip level components).
11.	<u>What are cell phone, mobile phone & trans receiver?</u> <ul style="list-style-type: none"> * What is cell phone, mobile phone, trans receiver? * Why our phone is called as cell phone, mobile phone, & trans receiver 	2hr.	4hr.
12.	<u>Capacitor.</u> <ul style="list-style-type: none"> * Introduction of capacitor * How many types of capacitor are used in cell phone? * What are their uses? * Identification & checking of capacitor. 	2hr.	4hr.
13.	<u>2nd Test, basic computer class. How to operate the computer?</u>	3hr.	3hr.
14.	<u>Coils.</u> <ul style="list-style-type: none"> * Introduction of coils. * How many types of coils used in cell phone? * On What principle coil will work * Identification & checking of coils. 	2hr.	4hr.
15.	<u>Transformer.</u> <ul style="list-style-type: none"> * Introduction of ‘transformer’ * How to construct the transformer? 	2hr.	4hr.



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16.	<u>Filters.</u> <ul style="list-style-type: none"> * Introduction of filters. * Why we are using filters in our phone? * Identification and checking of filters. 	2hr.	4hr.
17.	<u>Diodes.</u> <ul style="list-style-type: none"> * Introduction of diodes. * How many types of diodes are there? * How to build a diode? * Identification & checking of diodes. 	2hr.	4hr.
18.	<u>Transistor.</u> <ul style="list-style-type: none"> * Introduction of transistor. * Difference between NPN & PNP transistors. * How to construct a transistor? * Identification & checking of transistor. 	2hr.	4hr.
19.	<u>3rd Test, basic computer class</u> <u>Creating a folder & files, copy, paste.</u>	3hr.	3hr (test in soldering and de soldering).
20.	<u>Integrated circuits (I.C's).</u> <ul style="list-style-type: none"> * What are the types of IC's used in cell phone. * In Which section which IC's came what are their work? 	3hr.	3hr. Removing of ICs by using hotter air blower.
21.	<u>Block diagram of cell phone & their explanation.</u> <ul style="list-style-type: none"> * Identifying the Mobile phone sections in different models * I.C's identification in sections 	2hr.	4hr. (Identifying the mobile phone sections).
22.	<u>Multi meter.</u> <ul style="list-style-type: none"> * How to use the Multi meter? * How to take the readings on Multi meter? 	1hr.	5hr Jumpering from contacts to contacts.
23.	<u>Water damage.</u> <ul style="list-style-type: none"> * How to solve the water damage problem by showing them practical. 	1hr.	5hr (Solving of water damage by following trouble shooting).
24.	<u>Dead phone.</u> <ul style="list-style-type: none"> * Solve the dead phone by showing them practical 	1hr.	5hr (solving of dead phone by taking voltages).



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25.	<u>Ring-tone problem.</u> * How to solve the ring tone problem? * How to check the buzzer? * How to replace the buzzer? * How to trace the problem?	1hr.	5hr Solving of ring tone problem.
26.	<u>Vibrator.</u> * How to solve the vibrator problem? * How to check the vibrator & how replace the vibrator? * How to trace the problem?	1hr.	5hr Solving of vibrator problem.
27.	<u>Speaker.</u> * How to solve the Speaker problem? * How to check the Speaker? * How to replace the Speaker? * How to trace the problem?	1hr.	5hr Solving of Speaker problem.
28.	<u>Mic.</u> * How to solve the Mic problem? * How to check the Mic & how to replace the Mic? * How to trace the problem?	1hr.	5hr Solving of Mic problem.
29.	<u>Not charging.</u> * How to solve the not charging problem in phone with trouble shooting? * How to replace charging connector?	1hr.	5hr Solving of not charging by tracing the tracks.
30.	<u>Insert SIM.</u> * How to solve insert SIM problem? * How to identification of tracks?	1hr.	5hr changing the SIM filter.
31.	<u>Display problem.</u> * How to solve the Display problem? * How to change the Display?	1hr.	5hr Changing the Display filter.
32.	<u>Network problem.</u> * How to solve the network problem? * How to solve no network found & no network access?	1hr.	5hr Changing the network ICs.
33.	<u>Keypad problem.</u> * How to solve keypad problem? * How to change keypad strip?	1hr.	5hr Changing the keypad filter.
34.	<u>Head phone problem.</u> * Head phone pins are not working * How to solve that problem?	1hr.	5hr Tracing the tracks to solve the head phone problem by soldering & disordering.



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35.	<u>Touch Problem.</u> <ul style="list-style-type: none"> * How to solve touch problem * How to remove touch with touch remover machine. 	1hr.	5hr Converting the video files.
36.	<u>Soft-ware Video converter.</u> <ul style="list-style-type: none"> * How to convert the videos files? 	1hr.	5hr Converting the video files.
37.	<u>Flashing.</u> <ul style="list-style-type: none"> * How to flash the all types of mobiles through different tools & software boxes like (HWK, ATFS, Odin, android MTK, iPhones blackberry tool etc) 	1hr.	5hr Flashing the mobiles.
38.	<u>Flashing.</u> <ul style="list-style-type: none"> * How to flash the all types of mobiles through different tools & software boxes like (HWK, ATFS, Odin, android MTK, iPhones blackberry tool etc) 	1hr.	5hr Flashing the mobiles.
39.	<u>Flashing & Account creating.</u> <ul style="list-style-type: none"> * How to flash the all types of mobiles through different tools & software boxes like (HWK, ATFS, Odin, android MTK, iPhones blackberry tool etc) * Gmail account creating * Downloading flashing files 	1hr.	5hr Flashing the mobiles.
40.	<u>Valediction</u>		