Sub-mobile trainer practical outcomes (PrOs)

Dear Sir,

As per your suggested practicles or exercises mentioned in the mail we have the following specifications in our mobile trainer kit related with your points mention in mail.

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| S.No | Practical Outcomes (PrOs) | Our Points |
| 1 | Identify different sections and components of mobile phone such as ringer section. dialer section, receiver section and transmitter section | Ringer section – speaker and volume section  Dialler section – keypad section  Receiver section – Rx on GSM  Transmitter section – Tx on GSM |
| 2 | Identify the inbuilt sensors of mobile hand set and test their performance | LM35 – battery temperature  Mic – volume detection  Antena- RF signal detection |
| 3 | Interpret input/ output signals of different sections of mobile phone unit | All sections have the test points to test the different signals |
| 4 | Test the supply of the Transmitter Receiver section of Mobile | Test points given for voltage, ground , data and clock |
| 5 | Test the Battery charger section and Power management unit of Mobile phone unit | Different test points given in charging section for different signals and also given LED indication for the charging, battery full and charging fault. |
| 6 | Test the LCD and SIM section of Mobile phone unit | 1. Sim section - test points given for different signals 2. LCD section-   a. back light voltage  b. Back light control  c. serial clock  d. serial data |
| 7 | Test the User Interface section (Keyboard Buzzer, Vibrator, LED, Mic, Speaker) of Mobile phone unit | 1. User interface section 2. Keyboard 3. Vibrator 4. Mic 5. Buzzer 6. LED 7. Speaker |
| 8 | Troubleshoot the Battery charger section, LCD section and SIM card section of the mobile handset | Different Test points given in battery section , LCD section and SIM section to troubleshoot the problem |
| 9 | Troubleshoot the speaker problem, Ringer problem. Microphone problem. vibrator problem(User Interface section) | Test points given to trouble shoot the speaker, ringer, mic and vibrator problem. |
| 10 | Determine the coverage area of a split cell whose the radius is half the radius of original cell | All the points are may be of theory points which we don’t understand. It may be available in our trainer kit but as they are unknown to us we can not give an explanation related to those points. |
| 11 | Determine the channel capacity of a cellular system service area comprised of 4/7'12 macrocells with 8/12/16 channels per macrocell. |
| 12 | Determine the channel capacity if each microcellsin the above lab exercise is split into 4 minicells and each minicell is further split into 4 microcells |
| 13 | For a 7 cell cluster. 168 voice channels cellular system. determine the assignment of voice channel to each cell if onmi-directional antenna are used at the cell site |
| 14 | For a 7 cell cluster. 168 voice channels cellular system. determine the assinment of voice channel to each sector, if 3 sector 120' and 6 sector 60° directional antenna are used at the cell site |

**Please confirm all above points with your customer before delivery.**

