SurvCE - Setting Up the a Job With a Total Station - v1.50.xxx+

1) Double-tap SurvCE
2) Tap "**Select New/Existing Job**"
3) Type in the name of the job (note: the .crd extension is not important)
4) Double check Units tab to make sure readings are configured to your likening
    a. Recommended:
        i. Zero Azimuth : **North**
        ii. Vertical Obs : **Zenith**
        iii. Distance Obs : **Slope**
        iv. Angle : **Azimuth**
5) Tap "**OK**"
6) Enter the following for Coordinates
    a. Point ID: **1**
    b. Northing: **5000**
    c. Easting **5000**
    d. Elevation: **0**
    e. Description: **sta**
7) Tap "**OK**"
8) Tap "**Surv**" tab
9) Tap "**Sideshot/Traverse**"
10) Enter the following:
    a. Occupy Point: **1**
    b. Instr. Height: **whatever you measure**
    c. Target Height: **whatever height the pole is**
11) Enter Backsight Point: **100** and then hit **Enter (or long arrow key)**
12) Tap "**Enter Coordinates**"
13) Enter the following:
    a. Elevation: **100**
    b. Description: **tbm**
14) Tap "**OK**" on data collector screen
15) Tap "**Remote Benchmark**" Tab
16) Enter "**100"** into Benchmark Pt box by picking from list icon (you can not enter 100 manually)
17) Turn on Total Station, sight prism, and zero the horizontal angle
18) Tap "**Read**" button on data collector screen
19) Tap "**Store**"
20) Tap "**Backsight**" on data collector screen, then tap "C**ontinue**" on data collector screen
21) On this dialog box check "**Set to Zero**" to zero azimuth. Note: make sure pull down read screen shows "Set to Zero" it is defaulted to "Use Current".
22) Tap "**Set angle and read**" button on data collector screen don't forget to change the description of the point.
23) Tap "**Ok**" on data collector screen
24) You will see a Point Protect dialog box so Tap "**Overwrite**" button on data collector screen.

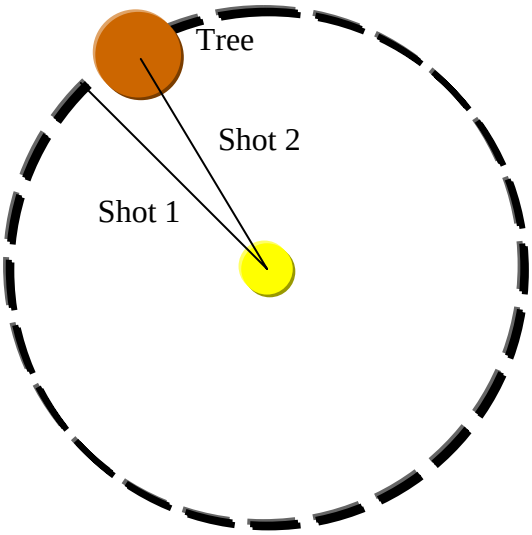
You are ready to survey!! Sight on your first shot and hit "**Enter" (or large arrow button)** on data collector to read and save the shot. This will take a shot and the data will display on the screen. You will probably have to change the point number the first time (to 101) and type in your description.

SurvCE – Turning Points

1) Sight the next shot and tap "**R**" on the screen. This shot should be the next point you want to occupy.
2) Tap "**T**" on the screen
3) Enter the first point number for that setup (i.e. **200**)
4) Enter description (i.e. **sta**)
5) Tap "**OK**"
6) Tap "**Move Now**"
7) Turn everything off and move to the new setup
8) Once setup, turn everything back on and backsight the station you were just setup at and zero the instrument as you did in the first setup.
9) Measure the new Instrument Height and change on the data collector.
10) Tap "**Backsight**"
11) Tap "**Set Angle and Read**"
12) Tap "**OK**"

Continue your survey

SurvCE – Offsets



Distance/Angle Offset:
This method takes two readings to get the actual point. The first reading takes the distance to the point and usually the vertical angle. The second reading takes the horizontal angle and then the readings are combined to create the point. If you wanted to locate the center of a tree this method would be acceptable. The prism would be setup beside the tree along a circle going through the tree with its center at the instrument. The second shot would be on the center of the tree without a prism for the azimuth angle only. The data collector combines both shots into one point.

1. Press the <**O**> bottom on the right side of the screen during a topo survey
2. Make sure the <**Distance/Angle**> tab is selected
3. Check <**Distance Shot**> on the record vertical angle from… line
4. Fill in the Description and Target Height at the bottom of the screen.
5. Sight the prism to the side of the object that you want to shoot.
6. Press <**Read Distance**>
7. Sight the prism on the center of the object
8. Press <**OK**> or <**Enter**> to read the second shot
9. The data from the both shots will be displayed
10. Press <**Store**> and the data collector will combine the shots into one point.
11. Fill out the point info and press <**OK**>
12. Press <**Close>** to return to the main screen