

- 1. Install COLDNet Profile and open application
- 2. The following screen will appear. Select Create a New Project

COLDNet Profile 1.0.0 Licenced to:	• • • • • • • • • • • • • • • • • • •	144 - 14 M					
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Profile							
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	Recent Project List -	Double Click to Select					
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- 3. Give the file a name, e.g. WalkthroughCSVImport.
- 4. The following screen below will appear. Select Parameter File Locations>Add Directory to navigate to the location where the Design Parameters/Libraries have been stored locally on the machine. Once selected Close Manage Directories window and double click on the desired parameter file from the list. For this example, select the Design Parameter file called **EQNonCyclonic**.

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Show All Trianload																
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	To Do:		toolStripSt	atusLabel1												

5. After selecting and importing a Parameter File, select Terrain Data and then select Import CSV file of GPS Points and open the ExampleEastNorth.csv file

Cancel Save as Import Template									Import Da
Select File to Import C:\U	sers\Kieren Hatch	man\Documents\K	ieren Hatchman ¹	CATAN\Training	iles\ExampleEastN	orth.CSV			
Load Import Template									
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6. Identify the data type of each column by selecting from the dropdown menu above the top row. Any columns for which the data type is not selected will default to Comment data

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	V	7349397.677	332013.826	12.278	%PO4137248	%YT10.600	%YT8.350		
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	V	7349416.465	332020.25	10.55	%YC7.05				
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	V	7349451.617	332033.816	8.012					
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	V	7349475.207	332050.554	8.033					
Load Comment Translation File									
				Start Import					



7. Select Start Import

8. You will then be asked if you want to save these settings as a template before you proceed. Select **No** and you will then be taken to the main plan view screen as shown below



- 9. Next we want to create a profile by first selecting **Tools>Show Create Profile Menu**. An additional menu bar should appear
- 10. Select the option that says **Deviation Point** before selecting the first pole for the profile as shown below (marked by a yellow cross)



11. Next, select the remaining deviation points (where the route changes direction) along the profile as shown below or select **Deviation at all poles Tab** to form profile. To deactivate deviation point, click and select point that doesn't require selection.



- 12. Select Generate Profile from the tool menu
- 13. A new window will open with a default **Design Name** called "Design1" and **Profile Name** called "Profile1". Click **Create Profile**
- 14. The profile centreline and triangulated terrain model will be generated as shown below





15. Select the option labelled **Profiles** in the top toolbar menu. A new window will open as shown below



- 16. Now we are going to add a conductor to our design by selecting the option labelled **Conductors**. A new window will open
- 17. Select the Voltage '11'
- 18. Select the Conductor Group 'Standard'
- 19. Select the Conductor 'Libra: AAC 1350 7/3.00 Libra'
- 20. Enter an Everyday Load (%CBL) of '12'
- 21. Enter the No. of Wires as '3'
- 22. Enter the Max Temperature (°C) of '50'
- 23. Enter the Min Temperature (°C) of '0'



- 24. Select **Save** in the top right-hand corner of the window
- 25. We are now going to place poles at those locations where poles have been indicated in the survey data using the field code %PO. Do this by first selecting the option **Place Default Poles on Profile**, as shown below



- 26. Change the Pole Group to 'Wood'
- 27. Change the Length Description to '12.5m'
- 28. Change the Strength Description to '5kn'
- 29. Change the Setting Depth to '2m'
- 30. Leave the default Soil Type as 'Good'
- 31. Select the Libra Conductor we added earlier by clicking the check-box provided
- 32. Change the Strain Crossarm Group to 'Wood'
- 33. Leave the default Crossarm as 'Strain 3Ph 2400x150x100'
- 34. Change the Pin Crossarm Group to 'Wood'
- 35. Leave the default Crossarm as 'Delta Inter. 3Ph 2400x100x100'
- 36. Enter a Max Deviation Angle for Pin Crossarms of '10'
- 37. Click the option that says Process Field Codes (e.g. %PO, %YT, %YA etc)
- 38. Select the option This is an Existing Profile
- 39. Click **Place Poles** to finalise. Profile 1 should now look like the figure below.





- 40. Next we are going to remove Circuit 2 and manually add a new LV circuit below Circuit 1
- 41. Select Circuits>Delete Circuits>Circuit 2
- 42. We will now add our new LV conductor to our design as we have just done previously by selecting the option labelled **Conductors**. A new window will open
- 43. Select the Voltage 'LV'
- 44. Select the Conductor Group 'Standard'
- 45. Select the Conductor 'SC/AC 3/2.75 : SC/AC 3/2.75'
- 46. Enter an Everyday Load (%CBL) of '10'
- 47. Enter the No. of Wires as '4'
- 48. Enter the Max Temperature (°C) of '50'
- 49. Enter the Min Temperature (°C) of '0'
- 50. Select Save in the top right-hand corner of the window
- 51. Next select Circuits>Add Circuits and the following form will open

COLDNet Profile – Import CSV Example



Γ	Add Circuit		×
	Cancel		Add Circuit
		Reference Circuit 1	
I	Select Conductor	Conductor	
I		11 Libra @12% x 3	
I		11 Libra @12% x 3	
I		LV SC/AC 3/2.75 @10% x 4	
	-Strain Crossarms	Are the distances bewteen circuits measured between kingbolts or lowest wires ? Distances are Kingbolt to Kingbolt Distances are Lowest wire to Lowest wire (POA's) Pin Crosserms	
I	Distance from Refe	erence Circuit (m) : Distance from Reference Circuit (m) :	
I	Crossarm Grou	P Crossarm Group	
I	Standard		-
I	Crossarm	Crossarm	
I			
I	Use Alternate	e Crossarm for centre phase switching Use Alternate Crossarm for centre phase switch	ing
l	Alternate Cross	Alternate Crossarm if switching centre phase	
		Max. Deviation Angle for Pin crossarms (°): 10	
		Start at Pole : 1	
		End at Pole : 9	
			Circuit

- 52. Select the option to Add Circuit Below
- 53. Select the **'LV SC/AC 3/2.75 @10% x 4'** conductor that we just added. A default strain and pin crossarm will be selected
- 54. Select Distances are Kingbolt to Kingbolt
- 55. Enter a Distance from Reference Circuit of '2' for both the strain and pin crossarms
- 56. Select **Add Circuit**. An LV Circuit 2 will be added to your design



57. We are now going to add in a clearance curve by first selecting the button **Catenaries** above the elevation view drawing. A new window will open



- 58. Under the Max Temperature curve for Circuit 1 we are going to select the option Show Curve
- 59. Enter in a Clearance value of '7'
- 60. Select **Close** at the top right-hand corner of the window. The elevation view will now have a 7m clearance curve for the conductor on circuit 1 operating at the maximum temperature. This is indicated by the yellow curve below. If the groundline crosses the yellow clearance curve then the required clearance has not been achieved.



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- 61. You may prefer to show the to show the clearance as an offset from the ground. To do this first go back into **Catenaries** and un-select **Show Curve** followed by **Close**
- 62. Next select the option Clearance to Ground and a new window will open



- 63. Select Add Clearance. A new row in the grid will appear at a Chainage of 0m
- 64. Enter a **Clearance** of **'7'** and select **Save**. The elevation view will still have a 7m clearance curve for the conductor on circuit 1 operating at the maximum temperature. This is indicated by the yellow curve below. If the maximum temperature circuit curve crosses the yellow off-set groundline clearance curve, the required clearance has not been achieved.





65. The pole attributes (**Group, Length, Strength, Setting Depth, Soil Type** etc) can be changed on each pole by clicking the pole of interest in the profile view (indicated by the grey transparent highlighting) and selecting from the dropdown menus provided which will be prepopulated from the user libraries.



66. A summary of the results on each pole can be viewed by clicking the pole of interest in the profile view (indicated by the grey transparent highlighting). The results are then listed on the left-hand side under the pole attributes







67. A list of **Defects** on the profile are also provided on the right-hand side of the elevation view

68. If the Pole or other attributes are highlighted red than the allowable limits have been exceeded