

Instructions

Process Plant Layout and Piping Design

Instructions for using SmartDraw

V1

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Smart Draw Instructions

Preliminary instructions to setup the exercise

Obtaining the software

- You can download a trial version of SmartDraw from:
<http://www.smartdraw.com/downloads/>
- Alternatively, logon to ElectromeetHTML5 for full version access:
 - Remote Lab 2** ||| OR ||| **Remote Lab 4.**

Obtain the necessary files

- If you are using SmartDraw on your PC, download the folder below from Moodle
Practical_Distillation_SmartDraw
- If you are using SmartDraw from the remote labs, you will find that folder in the folder called SmartDraw which is located in Documents/SmartDraw.

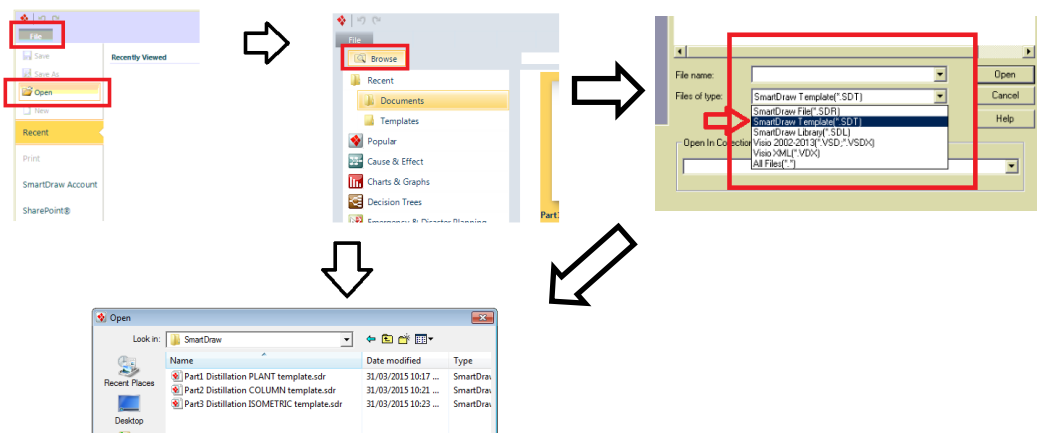
Running the software:

- Open SmartDraw CI
 - The icon is located on the desktop



1. Open the project template files in SmartDraw.

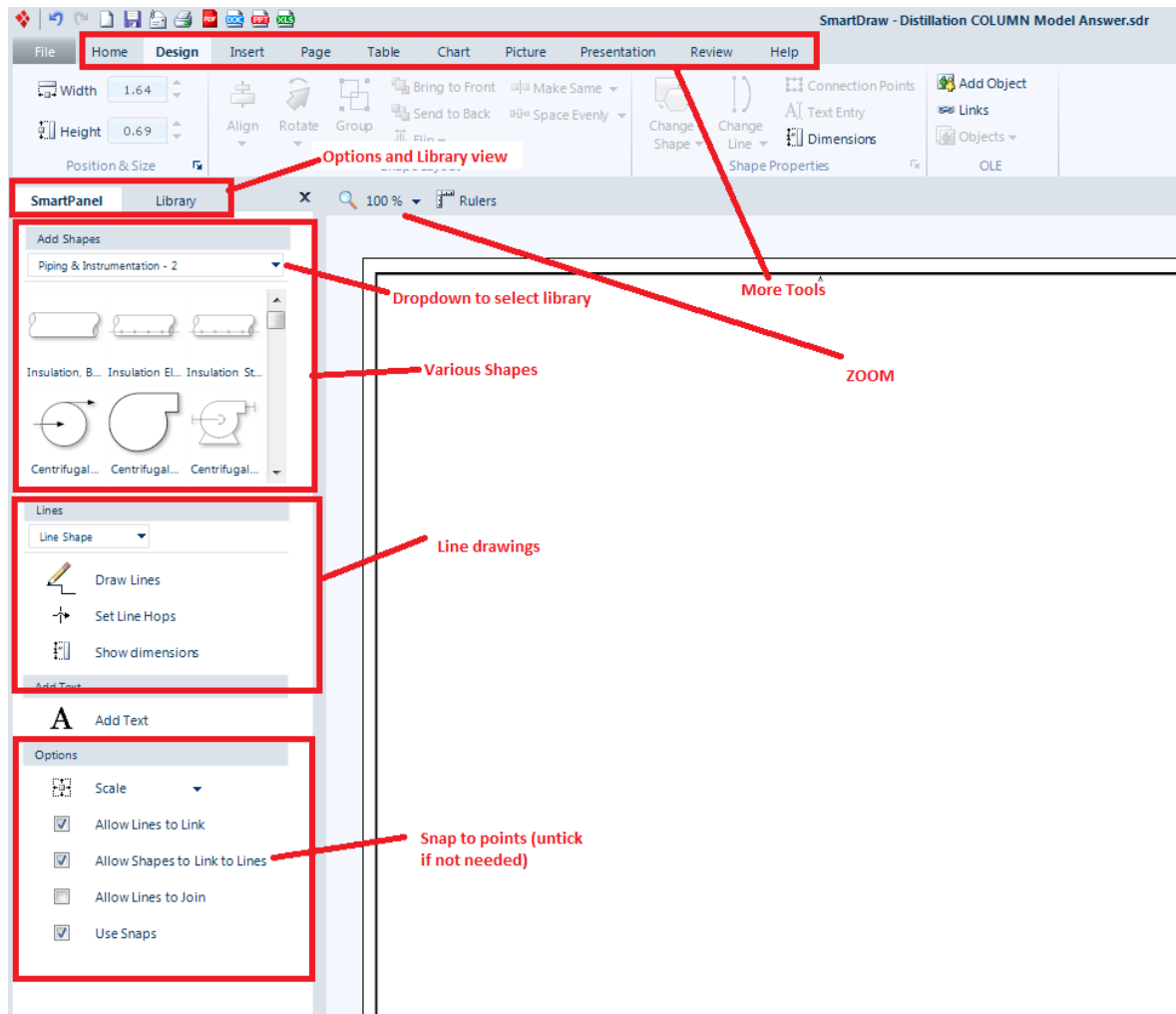
- Once SmartDraw is open, in the top left hand side click File -> Open -> Browse.



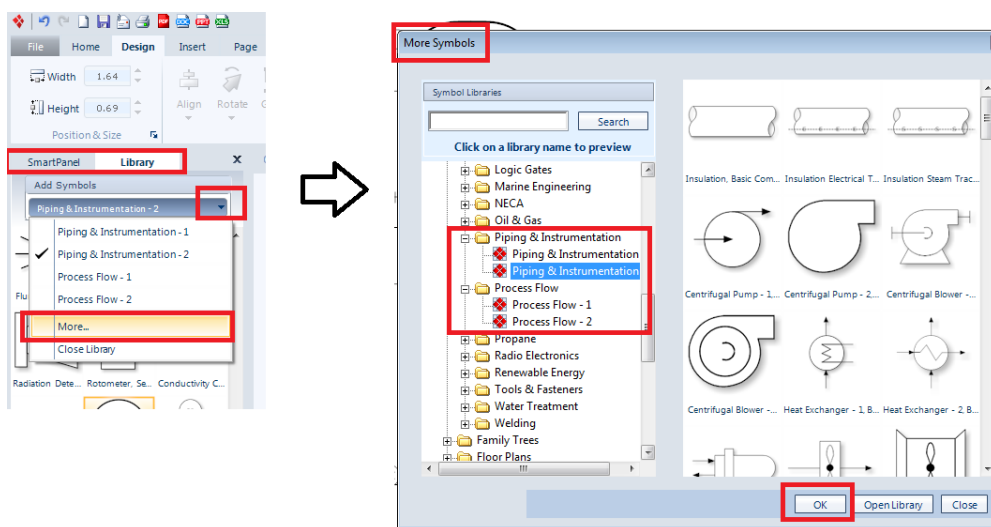
- Open the relevant template (NB save your files in a folder on the desktop! Not where the templates are saved please... Keep it tidy.)

2. SmartDraw interface

- The user interface

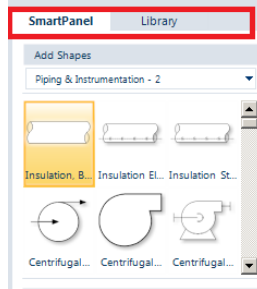


How to add more symbols to your shape library

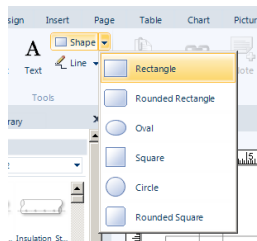


How to add equipment and shapes

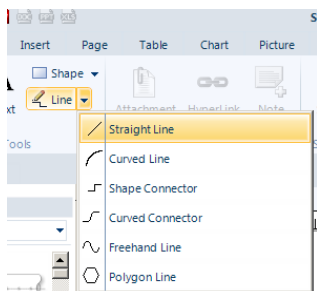
- Add **Shapes** from the **Smart Panel**, or **Library** tabs.
- Add shapes by clicking it once (or **drag and drop**) and placing it on the drawing canvas.



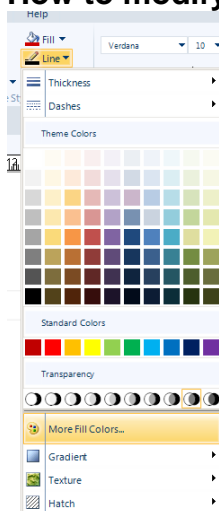
Add custom drawn shapes using



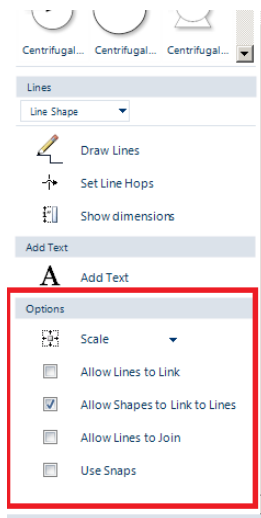
How to draw a line



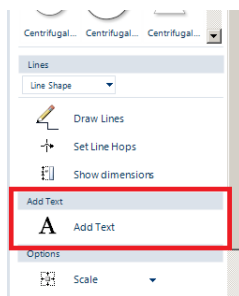
How to modify a line



How to let a line “Snap” to points on a shape

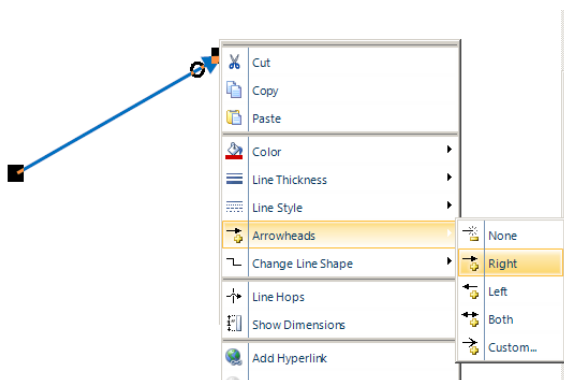


How to add annotations?



How to draw a pipe segment?

- Draw a line
- Right click line
- Change colour
- Change arrowhead



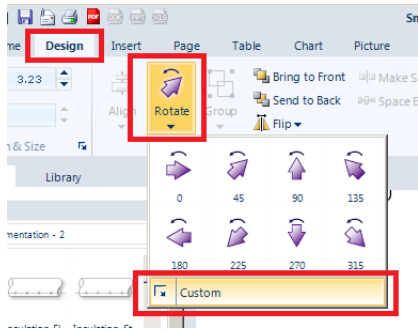
How to draw isometric?

We will keep things simple for this exercise as the main purpose of the exercise is to use professional software.

1. One way to do that is to:
 - a. Draw each pipe section of the drawing using straight lines.



2. Rotate each line individually.
 - a. LEFT click to select the line.
 - b. Under Design -> Rotate -> click Custom
 - c. Enter the rotation angle -> 30°, 150°, 210°, 330°



3. Move the lines to the required position.