TO COAT SCREEN WITH EMULSION

1. Choose proper scoop coater size for the screen you will be using and fill with emulsion.

2. Hold your screen at a vertical angle while placing the scoop coater flush with the mesh of the screen.

3. Slowly pull the scoop coater and emulsion up to the top of the screen and slowly remove from screen.

4. Take the coated screen to the dark room to dry, you should allow for at least two hours drying time (drying times can vary with different emulsions).

5. Scrap any remaining emulsion into container and place in refrigerator.

6. Clean any drips with water and a rag.

7. Clean out the scoop coater with warm water and a sponge. Make sure that all surfaces are cleaned. Dry and return to shelf.

TO EXPOSE SCREEN

1. Prepare your transparency. (If dealing with a digital file, print out a copy to scale onto cheap computer paper and use canola oil to make it transparent. The same method can be used with dark black markers on cheap paper)

2. Place transparency onto the glass of the light table. (Transparency should be “right reading”)

3. Go to the dark room and retrieve screen.

4. Place screen on light table, the mesh of the screen should be flush to the glass of the table.

5. Place the string in a U shape inside the frame of the screen.

6. Pull lid down and lock. Turn on vacuum switch. Turn exposure knob past the 4-minute mark and set for 3 ½ minutes. (Exposure time can vary with the type of image you are using, the amount of emulsion on the screen, as well as the type of emulsion you are using. 3 ½ minutes is an average exposure time.)

7. Leave the room while screen is exposing.

8. Once exposure is done, turn off vacuum and remove screen.

9. Clean exposure table with rag and vinegar.

10. Take screen to wash out booth and gently spray with cold water until image is washed out of the screen.

11. Let screen dry.
TO PRINT AND CLEAN UP

1 | Attach screen to clamp board.
2 | Tape edges of the screen.
3 | Prepare paper and ink.
4 | Choose a squeegee that is larger than your image and smaller than the inside dimension of the frame of your screen.
5 | Set up registration in your preferred method.
6 | Put ink in the screen and print.
7 | Once done with printing, scrape excess ink out of the screen and take screen and squeegee to wash out booth. Rinse with cold water until all ink is removed from the screen and squeegee. If needed, use a sponge to help loosen the ink.
8 | Wipe down wash out booth; make sure there is no tape or ink left.
9 | Dry and put away squeegee and screen.
10 | Put away left over ink.
11 | Clean any and all drips of ink and scraps of paper.

TO STRIP THE SCREEN OF EMULSION

1 | Once done with the screen, spray down with the emulsion remover. (front and back)
2 | Let the remover stay on the screen for about a minute. (DO NOT LET THE REMOVER DRY ON THE SCREEN AS IT WILL DESTROY YOUR SCREEN)
3 | Use the power washer to spray out the emulsion until the entire screen is cleared of the emulsion.
4 | Turn off water, power washer and wash out booth light.

CLEANING

Surfaces should all be wiped down completely with a clean rag and the soap and water solution after all ink and other messes have been cleaned. NO INK should be left on any surface for any reason whatsoever.
Prepare your transparency. (For digital files, print out to scale onto cheap computer paper and use canola oil to make it transparent. The same method can be used with opaque markers on cheap paper)

Place transparency onto the glass of the light table. (Transparency should be “wrong reading”) cover with a piece of mylar or acetate cut slightly larger than the original.

Put plate green side down over transparency on light table, flush to the glass.

Place the string in a U shape over the plate.

Pull lid down and lock. Turn on vacuum switch.

Turn exposure knob past the 4-minute mark and set your own stopwatch for 2 minutes. (Exposure time can vary with the type of image you are using, we recommend test shoots for best results.)

Leave the room while exposing due to the presence of UV light

Once exposure is done, turn off vacuum and remove plate.

There are several trays next to the screen print washout area, place one on the metal table located near the spray-out booth.

Zygote provides developer made from Lye, Soda Ash and water. Use gloves and the designated sponge to develop your plate.

Rinse for 1 minute in clean, cold water in the screen spray-out booth.

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