

## Ryonet Intermediate Screen Printing Class

### Prerequisites:

- Previous screen printing experience with enough knowledge to pass the screen printing basics quiz. *Take basic screen printing quiz here.* <http://www.silkscreeningsupplies.com/form/7804400>
- Completion of Ryonet's screen printing beginner course.
- Watched DVD 101 and read or watched enough other videos to understand the basic concepts and pass the screen printing basics quiz *Take basic screen printing quiz here.* <http://www.silkscreeningsupplies.com/form/7804400>

### Day ONE:

9:00am

- Class introduction:
  - Group introduction—find out where people are from, why they want to take screen printing to the next level etc.
- Instructor introduction:
  - A brief history of how the instructor took screen printing to the next level and what the outcome has been.

### Section 1: **Work right, always learn more and make money**

- Three basic concepts of success:
  - Efficiency: total finished shirts per hour less mistakes = your profit. Print more shirts in less time consistently and make more money. Explain.
  - Print quality: how it looks, how it stands out, how its different, how its bigger, brighter, crisper, more colorful and better for a customer. \*Show printed samples.
  - Try new things and always keep learning: take responsibility for your education.

### Section 2: **Pre-Press**

- Art: taking simple art to the next level:
  - Vector
    - The art of composition:
      - Clipart
      - Templates
      - Coloring
    - Enhance basic art with special tools:

- Brushes and brush pack
  - Design Studio
  - Backgrounds
  - Filters
- Raster Effects in Photoshop
- Gradients in Photoshop
  - About half tones:
    - What LPI means, what angle means
    - Examples on film and in print
    - Exposure parameters
  - RIP software:
    - Halftone printed with and without rip
- Full Color Raster
  - 4 Color Process
  - Types of images
  - Cleanup
  - Workflow
- Simulated Process
  - Types of images
  - Artwork sources
  - Sep studio separations:
    - Adding vector text
    - Printing Films

#### **Section 4: Screens**

- Best types of frames:
  - Aluminum and roller—the difference of frame to longevity and tension
- Mesh selection:
  - What meshes to use to take your prints to the next level
- Tension:
  - Optimal
  - How to measure
  - How long screens last
  - Re-Tension able:
    - Roller frame
    - Roller frame demo
    - Comparison between roller and static

#### **Section 5: Squeegee Selection**

- Types of blades:
  - 60, 70, 80, triple

- Explain which blade to use for different situations etc.
- Types of handles:
  - Standard
  - Ergo force
    - Demo ergo force

### **Section 6: TEST PRINT (all hands-on)**

- Two color print:
  - High tension print with ergo force
  - Lower tension screen with standard squeegee
    - Students will be able to view how different printing is with both

1:00pm **LUNCH (provided by Ryonet)**

1:30pm

### **Section 7: Darkroom**

- In-depth set up tour:
  - Dehumidify
  - Drying cab
  - Clean room
  - Maintenance
- Screen preparation:
  - Degreasing tips
  - Degreaser/dehazer demo
  - Drying in clean area/drying cab
- Screen coating:
  - Types of emulsions:
    - Dual cure
    - Hybrid
    - Photo Polymer
    - Explain which emulsion is optimal for each type of use
  - Proper 1/1
  - Cover stencil thickness = ink deposit
  - Proper 2/2
  - Proper cap film HD
  - Proper drying
- Exposure:
  - Type of exposure units:
    - Fluorescent black light tube vs. direct light
    - Key for size and speed
  - Pre-registration:

- Standard template
- Triloc system:
  - ❖ Test for moisture before exposure
  - ❖ Using an exposure calculator
  - ❖ Proper washout technique
  - ❖ Signs of over and under exposure
  - ❖ Drying the screen after washout
  - ❖ Post hardening:
    - Harden X
- Viewing your screens:
  - ❖ Light table
  - ❖ Blocking out
  - ❖ Taping

### **Section 8: Press**

- Set up:
  - Pallet tape
  - Press calibration
  - Electrical equipment warm up:
    - Flash
    - Dryer
  - Registration:
    - Register 4 color process or simulated process:
    - Register to film
    - Register to print
    - Tape method
    - Frolic
    - Have class test register
    - Test print
  - Curing parameters
  - Class production printing:
    - Two presses on process print

### **End of day:**

- Back into lecture room:
  - Throw it out preview section
  - Pricing discussion
  - Inksoft demo
  - Bling it
  - ASI
  - Q&A

**5:00pm – DINNER (provided by Ryonet)**

## **Day TWO:**

9:00am

### **Section 1:**

- Print around the shirt: black shirt
- For the first print of the day the screen printing instructor(s) will direct four stations that allow you to print a full shirt all around the shirt.
  - Tag print:
    - Use tag pallet, high mesh screen, reduced ink or water based
  - Crest print:
    - Show/practice alignment
    - Two color with under base/flash
  - Back print:
    - White print flash print
  - Sleeve print:
    - One or two color with or without flash (maybe opaque ink)

### **Section 2:**

- All over discharge:
  - Discharge demo
- Shimmer/glitter
- Stretch additive and/or gloss

### **Section 3:**

- Numbers/plastisol transfers:
  - Use numbers screens to accomplish
  - Everyone prints

1:00pm **LUNCH (provided by Ryonet)**

*\*Use this time for consultations*

1:30pm

### **Section 4:**

- Automatic production
- Digital demos:
  - Sublimation, inkjet transfers, vinyl transfers
  - Rhinestone transfers

### **Section 5:**

- Ink mixing demo:
  - Color matching system for plastisol

- Pigments for bases:
  - Gel
  - HD Gel
  - Shimmer
  - High density

**Section 6:**

- Simulated process on light
- Simulated process on dark
- Foil, specialty inks and rhinestones
- High density ink

**5:00pm Class Concludes**