



Prepress for Textiles and Screenprinting Course





Duration: 3 Days

Related Courses:

Photoshop, Principles of Design,
Typography, Principles of Colour,
Illustrator

Course Overview and Objectives

This course is designed to give you a comprehensive understanding of the prepress process, a crucial stage in textile printing that ensures your designs are accurately translated onto fabric. You'll dive into the intricacies of preparing artwork to ensure your designs are print-ready.

We'll cover the technical aspects of screen preparation, such as choosing the right mesh count, coating screens, and proper exposure techniques. You'll also explore the best practices for file formats and color management, ensuring consistent and vibrant prints across various textiles like cotton, polyester, and blends.

By the end, you'll be proficient in all aspects of prepress, ready to create professional-grade screenprints on a variety of textiles.

Pre-requisites:

A basic to intermediate knowledge of design and software

Prepress for Textiles and Screenprinting Course Outlines

Introduction to Screen Printing

- Understanding the screen printing process
- Different types of screen printing — manual vs. automatic

Materials and Equipment

- Screens — mesh count, frame materials
- Inks — types, properties, applications
- Squeegees — types, durometer, and uses
- Emulsions and chemicals — types, uses, handling
- Printing presses — manual and automatic

Artwork Preparation

- Designing for screen printing — vector vs. raster graphics
- Color separation techniques
- Creating and using halftones
- File formats and resolution requirements

Screen Preparation

- Selecting the right mesh count for different prints
- Coating screens with emulsion
- Drying and exposing screens
- Washing out and reclaiming screens

Ink Mixing and Color Matching

- Understanding Pantone colors
- Mixing inks for accurate color matching
- Adjusting ink properties — viscosity, opacity

Basic Printing Techniques

- Setting up the screen on the press
- Aligning and registering screens
- Proper use of squeegees — angle, pressure, stroke
- Curing printed textiles — flash curing, conveyor dryers

Intermediate Concepts

Advanced Artwork Techniques

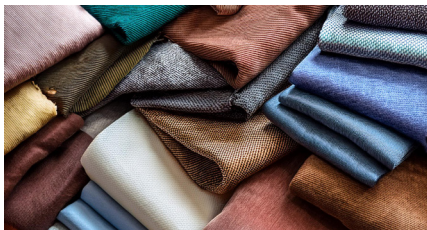
- Simulated process printing
- Index color separation
- Spot color vs. process color printing

Screen and Ink Management

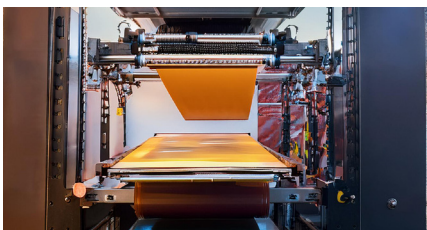
- Maintaining and storing screens
- Recycling and reclaiming screens



Spot color in screen printing
A technique that uses individually mixed inks to apply a specific color to designated areas of a design.



The correct materials is crucial
This ensures quality results. The right mesh count, ink, and substrate affect print detail, durability, and adhesion.



Screen printing
A technique uses a mesh stencil to apply ink to surfaces. Key methods include spot color and four color process. Specialty inks can add unique effects.

Advanced Printing Techniques

- Printing on different textile types — cotton, polyester, blends
- Printing special effects — puff, metallic, glitter, discharge inks
- Multi-color printing and registration techniques

Quality Control and Troubleshooting

- Identifying and fixing common printing issues — misregistration, ink bleed, ghosting
- Ensuring consistency in print runs
- Implementing quality control measures

Prepress Software Skills

- Using design software
- RIP software for film output
- Color management and proofing

Advanced Concepts

Specialized Printing Techniques

- All-over printing
- High-density printing
- Water-based and eco-friendly inks

Process Optimization

- Workflow management
- Lean manufacturing principles in screen printing
- Automation in screen printing — auto presses, computer-to-screen technology

Advanced Quality Control

- Advanced troubleshooting techniques
- Implementing quality assurance protocols
- Customer feedback and continuous improvement

Business and Marketing Skills

- Pricing strategies for screen printed product
- Marketing and branding for a screen printing business
- Customer service and relationship management

Sustainability Practices

- Eco-friendly inks and materials
- Sustainable production practice
- Waste reduction and recycling in the screen printing process

We offer online support to clients on content covered on our courses.