



SONOCO
INSTITUTE
CLEMSON® UNIVERSITY

Process Control for Flexo Seminar

Location: Harris A. Smith Auditorium

Day 1

8:30 Program Overview and Introductions

9:00 Review of Flexographic Printing

A comprehensive review of the flexographic printing process and the variables in play.

10:15 Break

10:30 Colors and Dots

Ultimately flexo printing involves managing halftone dots and color onto a substrate. This session will cover the measurement of color and dot area as tools for process control.

12:00 Lunch

1:00 Ink

Components of ink formulation, ink measurement and troubleshooting.

2:00 Anilox

In order to deliver a precise amount of ink to the plate, an anilox roller is employed. Proper selection and maintenance of this critical component will be reviewed.

3:00 Breakout Session: Hands-On Ink Characteristics

Ink drawdowns, pH and viscosity measurement.

4:00 Breakout Session: Anilox Care and Maintenance

Proper cleaning techniques, testing anilox volume, and effect of volume on color.

5:00 End of Day

5:30 Group Dinner

Day 2

8:30 Digital Platemaking

Imaging and processing a flexo printing plate is a complex task, this session will break down variables and how to measure them in the plateroom.

9:15 Press Characterization

Understanding how the press characterization plays a role in capturing press capabilities and predicting print outcomes.

9:50 Break

10:00 Breakout Session: Plateroom Measurements

Stain test, light output, relief measurement and more.

11:00 Breakout Session: Press Characterization

Run characterization to gather color and print information.

12:00 Lunch

1:00 Proofing for Flexography

Predicting results is a critical part of process control. Review options for color proofing hardware and software, the workflow of how to set it up, and how to ensure it remains accurate.

1:45 Screening and Curves

Dot shape, bump curves, and compensation curves are all essential for maintaining predictable results.

2:15 Break

2:30 Breakout Session: Tone Value and Curves

Hands-on with measuring tone value and generating press curves.

3:45 Breakout Session: Spectrophotometry

Hands-on with spectrophotometers: color, color difference and dot area measurements.

5:00 End of Day

Day 3

8:30 Hands-On Pressroom Challenge

The group will tend to a press run with many issues and use the tools you've learned during this course to problem solve.

10:45 Inline Measurement Devices

Inline spectrophotometers and web inspection are making process control faster, learn how this new technology works with a firsthand demonstration.

11:00 Break

11:15 Q&A and Evaluations

12:00 Adjourn