



**SONOCO**  
**INSTITUTE**  
CLEMSON® UNIVERSITY

## Advanced Techniques in Flexography Workshop

Location: Sonoco Institute

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### Day 1

- 1:00 Introductions & Program Orientation**  
Agenda, goals and process overview.
- 1:30 Presentation: Tone Control**  
Halftones, dot gain, curves, gray balance.
- 2:45 Break
- 3:00 Hands-On: Measure P2P**  
Measure P2P, generate curve set.
- 4:00 Hands-On: Output Characterization for Platemaking**
- 4:15 Hands-On: Platemaking**
- 5:00 End of Day

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## Day 2

**8:30 Hands-On: 4C Characterization**

Mount plates, match press parameters, collect samples.

**9:30 Presentation: Process Color Reproduction**

CMYK, device dependent color, color separation.

10:15 Break

**10:30 Presentation: CIE Lab, Color Measurement, Near Neutral Calibration**

L\*a\*b\*, color gamut, device independent color, NNC and G7®.

**11:30 Hands-On: Measure IT8 Charts**

12:00 Lunch

**1:00 Hands-On: Profile Creation**

Verify curves, analyze data, average data, build profiles.

**2:00 Hands-On: Image Color Separation**

Convert using profiles, assemble print file.

3:00 Break

**3:15 Hands-On: Digital Imaging and Platemaking**

Output files and begin platemaking.

**4:00 Discussion: Review Process**

Recap process and plan for final print run.

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## Day 3

- 8:30 Presentation: Color Proofing**  
Software and hardware requirements, calibration, process.
- 9:45 Hands-On: Create Inkjet Color Proof**  
Create inkjet proof of final job.
- 10:15 Break
- 10:30 Hands-On: Verify Proof**  
Verify proof against profile.
- 11:15 Hands-On: Mount Plates and Prepare Press**
- 12:00 Lunch
- 1:00 Hands-On: Print Final 4C Job**
- 2:00 Hands-On: Proof-to-Press Analysis**  
Compare proof to final print.
- 2:45 Q&A, Course Evaluation, Certificates**
- 3:00 End of Course