Technical Colour Seminar
CMYK & Extended Colour Gamut (ECG)

Colour measurement, colour matching, Extended Color Gamut printing system and steps to implement a color management process are the main points of this three day technical course.

📅 November 28-30th 2023

Comexi Ctec. Av. Mas Pins, 135. E-17457 Riudellots de la Selva. Girona. Spain

💬 English language

Adressed to professionals of flexible packaging sector and focused on flexographic industry.

👤 To attend please register to this link.

💳 Program fee: 1500€ (*)

Payment of the full amount is due prior to the start of the program.

(*) Fee includes Hotel accommodation during 3 nights, local transports, class materials, lunch and dinner each day.

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Program

Tuesday 28th

08:30 - 08:45	Welcome and Comexi and ComexiCtec facilitites tour
08:45 - 10:30	**Colorimetry**

What is colour?
Standard Illuminant.
Standard Observer.
Colour quantification
      Measuring with spectrophotometer
      Measurement conditions.
      M factor
      CIE Lab model vs LChº model
Calculation of colour difference DeltaE
(DeltaE76, DeltaE2000 and DeltaECMC)

10:30 - 10:45	Coffee break
10:45 - 12:00	**Densitometry**

What is densitometry?
Density quatification
      Measurement with spectrodensitometer
      Standard filters (ISO/ANSI, Status T, Status E, DIN)
      Equation (ABS vs PAP)

Tonal Value (TV) – Tonal Value Increase (TVI)
Scope of density for CMYK quality control and ECG

12:00 - 13:00	Lunch time
14:30 - 15:30	**Inks for Extended Color Gamut**

Sustainable Solutions (Water-Based inks and EB)

15:30 - 17:00	**Practical session: Color Matching**

Setting up the Spectrophotometer (x-rite eXact)
Color Data Interpretation
Color Matching through numbers

Wednesday 29th

08:30 - 10:30	**Extended Colour Gamut (ECG) introduction** ECG & Fixed Palette scope Advantages and disadvantages. Steps and tools for implementation.
10:30 - 10:45	Coffee break
10:45 - 12:00	**Characterization process I** *Mechanical test* (Benchmark). Select printing conditions. *Calibration test.* Calibration criteria. TVI - Grey balance - %SCTV
12:00 - 13:00	Lunch time
13:00 - 14:00	**Characterization process II** *Colorimetric test.* Extracting a color profile. What is a color profile? Color proof - Color simulation - Minimum dot simulation Color proof quality control - Scope and reliability of color proof. Production quality control. Colorimetry
14:00 - 16:00	**Practical session** Dot Gain Compensation Curves calculation with ESKO PressSync. Color Profile & Color Strategy with ESKO Color Pilot (EQUINOX)

Thursday 30th

08:30 - 10:30	**Practical session** ECG JOB Preparation with ArtPro+ and EQUINOX
10:30 - 10:45	Coffee break
10:45 - 12:00	**Practical session:** *ECG JOB#1* Printing Run Job changeover and Set-up with *"Genius PRINT"* *ECG JOB #2* Printing Run Analysis and Quality Control.
12:00 - 13:00	Lunch time
13:00 - 14:00	**Integration of color management and quality control**
14:00 - 15:00	**Closure** - Diploma and documentation

ESKO ✿ **AVT.** **x·rite** right on **color**