# Color management *2 days*

## Training plan

## Introduction

This advanced training has been designed for CalderaRIP users and partners who wish to learn how to create color profiles for their wide-format printers. The course requires basic knowledge of CalderaRIP, so we recommend you attend the Onboarding training first (or to have at least a prior experience with the installation & use of CalderaRIP software). In addition to creating ICC profiles for various ink configurations with the EasyMedia module, this course will also introduce you to the basics of color management in a large-format production environment.

www.youtube.com/CalderaRIP          www.workspace.caldera.com          www.helpdesk.caldera.com

## Objectives

- Understand the basics of color management
- Create an ICC profile and master each step of the calibration and characterization process
- Save and install ICC profiles
- Understand spot color management
- Automate spot color replacement
- Set up color management and understand the different types of rendering
- Use a simulation profile

## Available equipment

- Dell RIP Station
- Large-format printers
- Light booth
- Thread counter
- Spectrophotometers

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# *Color management*

Training plan

# *Day 1*

## *BASICS OF COLOR MANAGEMENT*                    🕐    **9h00**

### General
> What is color?

> The different color spaces

### ICC Profiles
> What is an ICC Profile?

> Input profile and output profile

> What is an output profile in CalderaRIP?

> Why is media calibration so important?

> Introduction to EasyMedia

### Spectrophotometers
> Presentation of the Barbieri TotalColor QB spectrophotometer

> Presentation of the x-rite I1 Pro 2

## *CREATE A CMYK PROFILE*                    🕐    **10h00**

### Pre-media calibration: material and environment calibration
> Nozzle tests

> Feed and bidirectional

> Inks

### Linearization
> What is linearization?

> Choosing a target: normal or exponential?

### Global ink limitation
> What is the global ink limitation?

> Ink limitation: what you should avoid

> How to read the Dynamic Target?

**Lunch break**    🕐    **12h30**

# Color management

## Training plan

### CREATE A CMYK PROFILE    🕐 14h00

#### Characterization

> How to manage black separation with GCR?

> Generate an ICC profile with adequate options

> Visualize and read profile information with GamutViewer

#### Print Standard Verifier

> What is a standard?

> The goal of the certification

> What is the Fogra Print Standard Digital?

#### After the profile

> How to re-linearize a printer?

> How to export and import a .mediapatch?

> How to access measure files?

**End of day 1**    🕐   17h30

## Day 2

### CREATE A PROFILE WITH LIGHT INKS    🕐 9h00

#### CMYKcmk profile

> Transition of light and dark inks

    - *Why use light inks?*

    - *How to properly adjust transition curves?*

> Linearization

> Global ink limit

> Profiling

> Profile verification

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## CREATE A PROFILE WITH N-COLOR INKS   🕐 **11h00**

### Profile with N-Color

> What is an additional ink?

   *- How to edit ink configurations?*

   *- What is the difference between a process ink and a spot ink?*

> Linearization

> Ink limitation

> Profiling

> Comparing gamuts from GamutViewer

> Profile verification

### Management of N-Color

> How to manage additional inks in ServerAdmin?

> How to manage additional inks in the print module?

**Lunch break**   🕐 **12h30**

## MANAGE SPECIAL INKS   🕐 **14h00**

> What is a special ink in CalderaRIP?

### White and Varnish?

> How to manage white and varnish channels from ServerAdmin?

> How to manage white and varnish channels from the print module?

## SPOT COLOR MANAGEMENT   🕐 **15h00**

> What is a spot color?

> Options in FileManager

### Spot color management module

> How to print a custom colorbook?

> How to replace a spot color?

> How to create your own CMYK library?

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### INK PERFORMER     🕐   16h00

> How does it work?

> Printing with optimized settings

> CostProof  configuration

> Comparing costs with and without InkPerformer

### EVALUATION     🕐   16h30

> Multiple-choice questionaire

> Feedback

**End of the training course**     🕐   **17h30**

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