

ALPHAS  
FACTS



Create Your Future



# Colour Management

**Colour Management** course will overview colour management theory and workflow, profiles, setting up of workstations and Photoshop, and process of opening images within Photoshop and the conversion process. Colour Management setup of other publishing applications will be examined and include Acrobat, Illustrator and InDesign. Other topics include monitor calibration techniques, soft-proofing, printing and print-proofing of results. We will also look at profiling monitors, scanners and printers. Comprehensive AlphaCC courseware approx 200 pages.

**Course Prerequisites:** Previous experience using applications on a PC or Macintosh is an essential prerequisite for this course. Intermediate (eg Photoshop Level 1 & 2) knowledge in using Photoshop is essential.

**Duration:** One day 9:00 am - 4:30 pm

## Course Content

### Reproduction Colour Theory and Print Standards

- Light and Colour
- The Visible Spectrum
- The Perception of Colour
- Surrounding Colour
- Colour Temperature
- Communicating Colour
- The Subtractive Primaries - C, M & Y
- RGB Colour Model
- Colour Gamut
- RGB Working Spaces
- CMYK Colour Model
- Colour Managing (correcting) CMYK Images
- Printing Standards
- Tone Compression
- Colour Management Systems
- Standardised Viewing Conditions
- Light Source
- Surround
- Metamerism
- Customising Reproduction for Print
- Print Industry Standards
- Litho Sheet-Fed (Commercial):
- Litho Web-Fed (Magazine):
- Newspaper SWOP:
- SAMPLE CMYK for Litho Sheet-Fed (Commercial) Printing:

- SAMPLE CMYK for Litho Web-Fed (Magazine) Printing:
- SAMPLE CMYK for Newsprint SWOP Printing:

### Colour Management Overview

- Why Manage Colour?
- What's the problem?
- Producing Consistent Colour
- Colour Management Overview
- Rendering Intent
- Assigning and Embedding Profiles
- Converting with Profiles
- How Conversions Work
- Remember what a CMS does NOT do?
- Benefits of a CMS
- CMS Workflow Approaches:
- COOM (Capture Once Output Many)
- So What's the Problem?
- Overview of a Colour Management System
- Components of a CMS
- 1. Device-independent Colour Model:
- 2. Colour Management Engine:
- 3. Device Profiles:
- 4. Rendering Intents:
- Rendering Intents (control out-of-gamut colours)
- How Does a CMS Work?
- Associating a Source Profile (Terminology)
- Setting up a Basic CMS

- Profile all Input Devices
- Profile all Output Devices
- Setting up Colour Management in Photoshop

### About Profiles

- About Profiles
- Profile Types
- Generic Profiles

### Monitor Calibration & Soft-Proofing

- Monitor Calibration-Profiling
- Monitor Calibration (MacOS X)
- Soft-Proofing Basics

### Colour Management Workflow

- Colour Management Workflow Options - When to convert
- CMYK workflows - early binding
- RGB workflows - late binding
- RGB-CMYK - workflow



## ...Colour Management Workflow

- Intermediate Spaces
- Device-independent RGB
- Workflow Within an Application
- Opening Untagged Documents
- Opening Tagged Documents
- Soft-Proofing Basics
- Soft-Proofing Rendering Intents
- Colour Managed & Non Colour Managed Workflows
- Import Colour Into a Colour-Managed Workflow
- Non Colour-Managed Internet
- Internet Colour Workflow
- Adobe Colour Management
- Colour Settings
- Default Profiles - Working Spaces
- Colour Management Policies
- Warnings - Manual Overrides
- Advanced Options - Default Conversion Settings
- Manual Assignments and Conversions
- Assign Profile
- Convert to Profile
- Soft-Proofing
- Soft-Proofing in Photoshop
- Soft-Proofing in InDesign
- Soft-Proofing in Illustrator
- Soft-Proofing Practices and Limitations
- Colour and PDF/X
- DeviceLink Profiles
- Why use DeviceLinks?

## Workshop - Colour Management in Adobe Applications

- PhotoShop Colour Settings
- 1. PhotoShop Colour Settings
- 2. PhotoShop Default Colour Settings
- 3. PhotoShop Default Colour Settings
- 4. Europe Prepress 3
- 5.1 North American Prepress 2
- 5.2 Magazine NON-ICC Setting
- 6.1 Newsprint Setting CC
- 6.2 Newsprint Setting CC
- 6.3 Newsprint Setting CC
- 6.4 Newsprint Setting CS6
- 6.5 Newsprint Setting CS6
- 6.6 Newsprint Setting CS6
- 7. Desktop Printer Setting
- 8. North American Web/Internet Setting
- PhotoShop - Opening Images
- 9.1 Opening an image with an embedded profile
- 9.2 Opening an image with an embedded profile

- 9.3 Opening an UNTAGGED image where origin is unknown
- 9.4 Opening an UNTAGGED image where origin is known
- 9.5 Opening an image with an embedded profile where origin is known
- 9.6 Opening an image with an invalid default embedded profile(from a scanner or digital camera with low end CM software
- 9.6 continued
- 10. Convert to Profile & Test Intent & Black Point Compensation
- Photoshop Tools
- 11. Image>Mode>CMYK: Non-Interactive CMYK Conversion
- 12.1 Edit>Convert to Profile: Interactive RGB or CMYK Conversions
- 12.2 Convert to Profile
- 13. Edit>Assign Profile
- 14. Soft-Proofing
- CS5 Bridge
- 15. Synchronizing CC-CS6 Applications
- InDesign Colour Settings
- 16. InDesign Colour Settings
- InDesign Soft-Proofing
- 16.1 InDesign Soft-Proofing
- 16.2 RGB images within an InDesign document
- Illustrator Colour Settings
- 17.1 Illustrator Colour Settings
- Illustrator Soft-Proofing
- 17.2 Illustrator Soft-Proofing
- Acrobat X Colour Management
- 18. Acrobat Colour Settings

## Proofing and Printing Accurately

- Proofing and Printing Accurately
- Profile Limitations
- Printing and Proofing
- Photoshop Print Output
- Final Print Output (Photoshop pre CS6)
- Photoshop Print Output
- Final Print Output (PhotoshopCC-CS6117)
- Proof Print Output (Photoshop pre CS6)
- Proof Print Output (PhotoshopCC-CS6119)
- InDesign Print Output
- Final Print Output (InDesign)
- Proof Print Output (InDesign)
- InDesign Export Options
- Outputting RGB/CMYK Images to PDF-CMYK-MAGAZINE
- Outputting RGB/CMYK Images to PDF-CMYK-NEWSPRINT
- Outputting RGB/CMYK Images to ICC-TAGGED-PDF-CMYK-NEWSPRINT

- Outputting RGB/CMYK Images to PDF/X-1a (this only allows CMYK colour)
- Outputting RGB/CMYK Images to PDF/X-3 (this allows RGB & CMYK colour)

## Creating Profiling and CM Review

- Creating ICC Profiles

## Appendix

- Adobe Colour Management
- Adobe ICC Profiles
- Eye-One Monitor Calibrator





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Alpha CC Courses include:

- Comprehensive course notes
- Certificate of Completion
- FREE access to eLearning resources
- After course support, unlimited HELP DESK (for public course only)

#### Colour Management Package

- Image Correction using Photoshop and Colour Management
- 2 days
- Select your preferred dates
- Book for 5% discount
- enter code **ColManpack**

#### Packages Available

Colour Management is offered as part of a package designed for users who want to attend multiple courses to achieve in depth knowledge.

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