

## Morning Session Day 1-----9:00am

### Session Start



#### Introductions

- Instructor introduction
- Attendee introductions



#### Goals

- Raising the level of understanding about ITX



#### Course elements

- We will learn the following:
  - Defining and maintaining the equipment
  - Understanding the dashboard
  - System configuration option
  - Local machine configuration options
  - Setting up a job
  - Understanding job setup menus
  - Understanding the ITX editor menu
  - Creating and maintaining your press library
  - Creating and maintaining your target library
  - Creating and maintaining your targets (inks)
  - Creating and maintaining your project template library
  - Creating and maintaining your colorbar library
  - Screen and data interpretation (top menu bar)
  - More screen and data interpretation (bottom menu bar)
  - Troubleshooting recognition
  - Database administration tool
  - Understanding job reports
  - ToolCrib
  - Profiling
  - Final exam software
  - Dismiss

### Defining and Maintaining the Scanning Equipment



#### Hardware

- Track
  - Power supply

- Key stops
- Interface ports
  - Interface cable between track and pump
  - Interface cable between track and computer
- White Cal plaque
  - Cleaning the calibration plaque
  - Replacing the calibration plaque
- Cleaning the track
- Head
  - How to remove
  - Cleaning the head
- Handheld instrument (If equipped)
  - How to remove
  - Cleaning the handheld

## Understanding the Dashboard

### Editors

- Menu for creating the following:
  - Press
  - Target Library
  - Targets
  - Colorbars
  - Project Type

### Press Tool

- Main screen for viewing and scanning jobs.

### Reporting Tool

- Menu for running reports.

### Database Admin Tool

- Menu to administer the database.

### Local Machine Configuration

- Menu to configure the Press Tool.

### System Configuration

- Menu to configure the system options.

- ToolCrib**
  - Utility used to troubleshoot the hardware.

### **System Configuration Tool Options**


- System Setting**
  - Illuminate and Observer
  - Density Status
- System Default**
  - System wide targets
  - System wide tolerances
  - When will these values be used in the software
- Tints**
  - Establishing the number of tints that you use in your plant
  - Establishing the percent tint value for each tint used

### **Local Machine Configuration Tool Options**


- General**
  - DE method
  - Vacuum shutdown
  - Graphs
  - Minus paper calculation
  - Calibration options
- Show and Hide**
  - What attributes get turned on in the PressTool
- Post Scan**
  - SDF (Scan Density File)
  - SVF (Scan Value File)
  - TVF (Target Value File)
- Database / Keyboard**
  - Change Database location and name.
  - Change keyboard from ABC to QWERTUI

## Morning Break

### Setting up a Job

- Set up job using provide job ticket - Exercise 1** 
  - Launch the PressTool main screen.
  - Attempts connections with the scanning system.
  
- Job Info**
  - New Job
    - Default Project Template
  - Re-Order Job
    - Carries over OK sheet.
  - Open Job
    - Continues were you left off.
  - New JDF
    - Starts a new job using a CIP4 or JDF file.

### Understanding Job Setup Menus

- Set up job using provide job ticket - Exercise 2** 
  
- Press and Inks**
  - Adjusting colors to the press
    - Adding colors
    - Removing colors
    - Adjusting ink sequence
  
- Colorbar**
  - Changing colorbar
  - Understanding the difference between Gripper and Tail
  - Sequence of colorbar in view window
  - Turning off Auto Tracking
  
- Targets**
  - Modifying targets for current job only
  - Modifying tolerance for current job only

 **Sheet Info**

- Selecting paper stock
- Sheet alignment
  - Centered
  - Not centered

**Understanding the ITX Editor Menu** **Category**

- Press
  - Library of press you have added or created.
- Target Library
  - Library of the target libraries you created.
- Targets
  - Library of colors you have added or created.
- Colorbars
  - Library of colorbars you have added or created.
- Project Template
  - Library of project templates you have created.

 **Modifiers**

- Create
  - Allows you to create a new item.
- Delete
  - Allows you to delete an old item.
- Rename
  - Allows you to rename an existing item
- Duplicate
  - Allows you to make a duplicate of an item that already exists in the system.
- Edit
  - Allows you to edit an item that already exists in the system.
- Import
  - Allows you to import an item into the specific category.
- Export
  - Allows you to export an item out of a specific category.

**Creating and Maintaining Your Press Library** **Know your press**

- Non Perfecting
- Perfecting
  - Bottom of the sheet printed on the first units and top of the sheet printed on the last units.
- Reverse Perfecting
  - Top of the sheet printed on the first units and bottom of the sheet printed on the last units.
- Blanket to Blanket
  - Top and bottom of the sheet printed at the same time without any tumbler in the press.
- Number of units
- Number of keys
- Key width
  - Must be accurate
- If a In-Line perfecting press where is the tumbler

#### Exercise A

- Create a press with the following Parameters:
  - Name it: Test Press 6 color
  - Straight
  - 6 units
  - 32 keys
  - 34mm each key

#### Exercise B

- Create a press with the following Parameters:
  - Name it: Test Press 6 color Perfector
  - Perfecting
  - 6 units
  - 40 keys
  - 34mm each key
  - Tumbler between 4 and 5 unit

#### Exercise C

- Create a press with the following Parameters:
  - Name it: Test Press 6 over 6
  - Perfecting—Blanket to Blanket
  - 12 units
  - 34 keys
  - 34mm each key

- Maintenance of press library**
  - Developing good habits
    - Don't edit the original, edit a duplicate
  - Exporting the press file for back-up

## Lunch

### Creating and Maintaining Your Target Library

- Why you want to create different target libraries**
  - Different customers
  - Different substrates
  - Different targets

- Exercise D** 
  - Create a Target Library with the following Parameters:
  - Name it: Class Room Colors

### Creating and Maintaining Your Targets (Inks)

- Creating a color using the handheld**
  - Choosing a target type
    - Ink
    - Paper
    - Overprints
    - Gray Balances
  - Name the Color
    - Be very specific when naming
  - Measure the color
    - If no Hand Held is attached, you can type in Lab values.
    - Establish targets for the following attributes:
      - Density
      - Dot area for corresponding tints
      - Grayness
      - Hue Error
    - Establish the tolerances for the attributes you are using

- Exercise E** 

- Create a Ink with the following Parameters:
  - Library: Class Room Colors
  - Name it: X-Rite Orange
  - Measure the Orange inside the folder
  - Modify the Lab values to:
    - L--- +64.80
    - a--- +37.20
    - b--- +46.09
  - Change the density target to 1.10D
  - Change the Tolerance for density solid to +/- .03 and +/- .07

### Exercise F

- Create a Paper with the following Parameters:
  - Library: Class Room Colors
  - Name it: X-Rite Mate Paper
  - Measure the Paper stock from the folder
  - Modify the Lab values to:
    - L--- +97.02
    - a--- +2.07
    - b--- -4.11
  - Change the density target to .07D
  - Change the Tolerance for density solid to +/- .03 and +/- .07

## More Scanning Exercises

### Practice, practice, using provided job ticket-Exercise 3

## Creating and Maintaining Your Project Template Library

- ### Creating a Project Template
- Choosing the correct name
  - Selecting the press
  - Selecting the colorbar
  - Choosing gripper or tail
  - Selecting the paper stock
  - Selecting the inks

### Exercise F

- Create a Project Template with the following Parameters:



- Name it: Exercise 8
- Press: Test Press 6 color
- Colorbar: ?
- Inks: ?
  - Library: Class Room Colors
- Paper: ?
  - Library: Class Room Colors

### Exercise G

- Create a Project Template with the following Parameters:
  - Name it: Exercise 9
  - Press: Test Press 6 color
  - Colorbar: ?
  - Inks: ?
    - Library: Class Room Colors
  - Paper: ?
    - Library: Class Room Colors

## Afternoon Break

### Creating and Maintaining Your Colorbar Library

#### Creation of colorbar

- Colorbar height
- Standard patch width
  - Trick.... measure 10 patches and then divide by 10
- Understanding patch types
- Adding Inks to the menu
- Modifying patch size if you make a mistake
- Changing patches from one type to another
- Creating a Repeat
- Repeat.... what is a “repeat”

#### Colorbar maintenance

- Learning good habits
  - Never edit the original; edit a duplicate
- Exporting colorbars to a floppy disk as a back-up

### Exercise 4

- Create the 4 color colorbar from the colorbar build sheet and scan it in using the provided job ticket

 **Exercise 5** 

- Create the 6 color colorbar from the colorbar build sheet and scan it in using the provided job ticket

**More Scanning Exercises**

 **Practice, practice, practice using provided job ticket - Exercise 6** 



## Morning Session Day 2-----8:00am

### More Scanning Exercises



Practice using provided job ticket - Exercise 7 

### Screen and Data Interpretation (Top Menu Bar)



#### Make Ready versus Production

- Changes the state of the current sheet



#### Values

- Turns the values (numbers) on the graph



#### Difference

- Displays the difference between the target and what was measured on the graph for all patches.



#### Actual

- Displays the actual value measured for all patches.



#### Graph sets

- Solid Ink Density
  - Display the solid ink density for all colors in the job
- Dot
  - Pick screen tint value
  - Displays the dot area for all colors in the job
- Hue Error
  - Display the hue error for all colors in the job
- More
  - Allows you to pick other attributes you are tracking



#### Options

- Manage keys
  - Selecting the ink to turn off
  - Selecting the key zone you to turn off

- Info
  - Display current software version
- Print
  - Prints out the current graph set

**Help**

- You can view or print the help files.
- Full manual

**Exit**

- Exits the PressTool

### **More Screen and Data Interpretation (Bottom Menu Bar)**

**Make OK**

- Sets the current sheet to the OK sheet
- Allows you to pick which units to set as Ok and which ones to leave to shop targets

**Sheet Info**

- Displays current sheet number and the date and time it was measured
- Allows you to change the status of the sheet from OK, Production, Make-ready
- Allows you to delete the sheet
- Troubleshooting view
  - Clicking on color will show LabCh for that color
  - Allows you to view the color sequence the head measured it in.

**Sheet navigation buttons**

- Allows you to navigate from sheet to sheet
- Allows you to jump to the OK sheet
- Allows you to jump to a specific sheet number

**Measure button**

- This will cause the instrument to take a measurement

**ICC Profiling button (if equipped)**

- This will cause the instrument to start a profile measurement
- Must read colorbar first

**Instrument connection buttons**

- Handheld
  - Indicates whether the handheld is connected
  - Allows you calibrate the handheld
- Scanner
  - Indicates whether the scanner is connected
  - Allows you to manually calibrate the scanner
  - Measure color reference
    - Select the file for the card that shipped with the scanner
    - Each card is unique to the scanner it shipped with.
    - Will give you a pass or fail on the different colors
    - You can print out the report

 **Page Up and Down**

- Scrolls page up or page down if you have more than 6 colors on a job.

**More Scanning Exercises** **Practice, practice, practice, using provided job ticket - Exercise 8****More Project Template Exercises** **Exercise H**

- Create a Project Template with the following Parameters:
  - Name it: Exercise 10
  - Press: Test Press 6 color
  - Colorbar: ?
  - Inks: ?
    - Library: Class Room Colors
  - Paper: ?
    - Library: Class Room Colors

 **Exercise I**

- Create a Project Template with the following Parameters:
  - Name it: Exercise 11
  - Press: Test Press 6 color
  - Colorbar: ?
  - Inks: ?

- Library: Class Room Colors
- Paper: ?
- Library: Class Room Colors

## Morning Break

### More Scanning Exercises

Practice scanning more jobs - Exercise 9 

Practice scanning more jobs - Exercise 10 

### More Project Template Exercises

Exercise J 

- Create a Project Template with the following Parameters:
  - Name it: Exercise 12
  - Press: Test Press 6 color
  - Colorbar: ?
  - Inks: ?
    - Library: Class Room Colors
  - Paper: ?
    - Library: Class Room Colors


Exercise K 

- Create a Project Template with the following Parameters:
  - Name it: Exercise 13
  - Press: Test Press 6 color
  - Colorbar: ?
  - Inks: ?
    - Library: Class Room Colors
  - Paper: ?
    - Library: Class Room Colors

### More Scanning Exercises

Practice scanning more jobs - Exercise 11 

## Troubleshooting Recognition

- Specify position**
  - Scan in a single color job - **Exercise 12** 

## Lunch

## Database Administration Tool

- Choose what computer the db is located on.**
- MS SQL Instance**
- Remote File Server**
  - When to backup
  - When to Restore
  - Where the file is stored
- Auto Archive**
  - When to use Archive
  - When to delete sheet
  - When to not delete sheet
- Manage Users**
  - When you need to add a user to the db
- Manage Jobs**
  - Deleting jobs and projects
  - Exporting jobs

## Understand Job Reports

- Job report**
  - Contains all production sheets
  - Does not contain any make-ready sheets or turned off keys
- Single report**

- Contains information about one sheet and all keys

## ToolCrib

### Instrument connection parameters

- Port number
  - 4900
- IP address
  - 172.16.1.100

### Download

- Displays current firmware
- Allows you to upload new firmware into the head/track
  - One file for complete system

### Calibration

- Color Reference File
  - Allows you to do a color check outside the PressTool.
- Color Ref File
  - Allows you to load new calibration standard file into the head.

### Network Configuration

- IP Address
  - 172.16.1.100 (Default)
- Subnet Mask
  - 255.255.0.0 (Default)
- Gateway
  - 172.16.1.12 (Default)
- Name Server
  - 172.16.1.0 (Default)
- Static/Dynamic
  - Allows you to change from a static IP device to Dynamic
  - Static (Default)

### Head Status

- Check Head
  - This will make the system synchronize the head with the track.
    - Loading Calibration values
    - NCIS sensor calibration



## Profiling

### Profile Targets

- Allows you to define a custom target created in Monaco Profiler
  - Profiler 4.8
    - Creation of custom targets for different paper sizes
    - Create of custom targets for different patch sets
    - Allows you average multiple measurements into on profile.
- Project Template
  - Profiling
    - Target
      - Select target
    - Profiler Options
      - Allows you to disable or enable the creation of the profile
      - Allows you to choose the destination for the profile to be saved.
      - Allows you to type in the name of the profile.
    - Measured File
      - Allows you to disable or enable the creation of the data measurement file.
      - Allows you to choose the destination for the measurement file to be saved.
      - Allows you to type in the name of the measurement file.
      - Allows you to choose what data is in the file.
        - Lab
        - XYZ
        - LCH
        - Density
        - Reflectances
    - System Options
      - Allows you to disable the profile measurement button if you are not within a selectable range
      - Allows you to select a range for the colors in the colorbar to be within.
      - Allows you to warn user is profile target will be outside the range of density in the colorbar
    - Advance Options
      - Ink controls
        - GCR


- UCR
- Amount of GCR
- Max Black Ink
- TAC (Total Area Coverage)
- Table Options
  - Rendering intent
  - Table resolution

## Profiling Scanning Exercises

Profiling a 4 color job- Exercise 13 

Profiling a 6 color job- Exercise 14 

## Software Final Exam, Q&A...

- Final Exam----Exercise 15 
- Build a press, colorbar, create shop targets
  - Use these to build and scan in the job