

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** 



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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