G7 Expert/Professional Training: Host Requirements

Important Notice

• Training is open to the public, and may include the host’s competitors.
• Host may not refuse admittance, but may restrict access to plant areas not needed for training, so long as any restrictions apply equally to all attendees.

General Requirements

• Training room or classroom suitable for the total number of attendees (maximum 25 – 30). Must be reasonably secure to leave valuables during the day.
• Chairs and table surfaces for all attendees.
• Power outlets or power strips for attendees’ laptops.
• High-quality projector with at least 2,000 lumens of “Color Brightness” (see www.colorlightoutput.com/) and screen.
• A means of darkening the training room during video projection.
• Access to major airport, at least one suitable hotel with free internet, and restaurants.
• Catering or delivery for on-site lunches.
• Standard D-50 full-size viewing booth with genuine manufacturer’s tubes.
• A CMYK proofing system and a CMYK printing system, tested as described on page 2.
• All proofing and printing systems must be operable with color management OFF.
• Host-provided trained operators for all proofing RIPs and printing devices.

Proofing System

• EITHER: A laminate halftone pre-press proofing system (e.g. Fuji Final Proof or Kodak Approval),
• OR: An ink-jet proofing system driven (ideally) by a RIP with CMYK calibration curves. (See Proofing System or Digital Press Test.) NOTE: If the proofing RIP does not have user-adjustable CMYK calibration curves, G7 calibration will be demonstrated using curves applied in Photoshop.

Offset Press (if applicable)

• 4-color offset press – 28” x 40” (or smaller by prior arrangement.) NOTE: Press must be in optimum condition.
• 5,000 – 10,000 sheets (or equivalent rolls) of Grade 1 or Grade 3 coated paper.
• (Ideally) ISO 2846-certified inks, but any good inks can be used.
• Aqueous coating unit (highly desirable).
• CtP system driven by a RIP with separate CMYK calibration curves. (See Offset RIP Test.)

Digital Press (if applicable)

• A 4-color digital press using non-offset technology.
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• Adequate supply of high quality printing paper.
• Must be driven by a RIP with separate CMYK calibration curves. (See Proofing System or Digital Press Test.)

Measuring Equipment

• Hand-held spectrodensitometer capable of measuring CIELab and 4-color density, e.g.
• X-Rite 528 or 530, TechKon SpectroDens or Konica Minolta FD-5 or FD-7.
• Automated spectrophotometer, e.g. X-Rite iSis XL or EyeOne Pro II with I/O table.
Proofing System or Digital Press Test

- Print a P2P25 target through the RIP/controller with color management off (no ICC profiles) and with “empty” calibration LUTs (input % = output %).

If the host has G7 calibration software

- Calibrate and print a new P2P target, then send the corrected measurements to don@hutchcolor.com.

If the host does not have G7 calibration software

- Measure the uncalibrated P2P target and send the measurements to don@hutchcolor.com.
- Enter the correction values returned by Don into the RIP and print a new P2P target.
- Measure the resulting P2P target and send the data to don@hutchcolor.com.
- If the results are not good, more tests may be necessary to validate the host equipment.

Offset RIP Test (if plates will be made)

- Image a calibration target on a cyan plate with color management off and “empty” calibration LUTs (input % = output %).
- Develop the plate and measure the target at 10%. NOTE: Measured percentages will probably not match the file values exactly. This is normal and correct.
- In the linearization or calibration software, enter the following “correction” values:

<table>
<thead>
<tr>
<th>INPUT%</th>
<th>OUTPUT%</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>8</td>
</tr>
<tr>
<td>30</td>
<td>1</td>
</tr>
<tr>
<td>40</td>
<td>26</td>
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<td>50</td>
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<td>77</td>
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<tr>
<td>90</td>
<td>89</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

If the RIP requires more steps, interpolate these numbers or use the RIP’s interpolation.

- Produce a new plate through the calibration curves and measure the calibration target.
- Confirm that the OUTPUT% values have been approximately achieved (perfect accuracy is not important), and send the "Before" and "After" values to don@hutchcolor.com.
- Record the exact RIP calibration process for use during the training class.

Benefits of Hosting

- Complimentary training, exam and certification at the G7 Professional level for up to 3 people, a $2,000 per person benefit. The training and exam may also be used by existing G7 Experts or Professionals for recertification. (NOTE: G7 Expert level certification requires full Corporate Membership and is an additional US$500 per person.)
- G7 Master Qualification for the host location for one year including listing in The Official Directory of IDEAlliance Certified Experts, Professionals and Qualified Masters.
- One year of Network Membership, concurrent with G7 Master Qualification period (for non-member companies).
- Option to promote the event to your customers and partners.