



BIC Training Courses

Training for an empowered, informed supply chain

April 2017





SUCCESSFUL SUPPLY CHAINS START WITH PEOPLE

Course Name:

An Introduction to Paper and Colour Printing Training Course

Course Location:

Trento, Italy.

Who is the Course Aimed at:

The course is aimed at those who are, or would like to be, responsible for the production of colour books. It provides a practical introduction to colour print and paper.

Course Level:

The course is aimed at those new to colour production, and those who have learnt 'on the job' and would like a deeper understanding of the techniques and processes in the manufacture of paper and colour books.

Course Content:

The course will have a practical bias and ensure that all theoretical elements are accompanied by a practical application. Each section will contain a problem-solving element, to enable the attendees to gain an understanding of the potential pitfalls, how to avoid them and how to spot them if they do occur.

Day 1 – Print and Bindery**Pre-Press, Colour Theory and Management**

Providing an introduction to colour theory including:

- The limitations of the CMYK print space vs RGB
- How an image is converted
- Why we use screens, what they are and their structure
- Ink density and how it is allowed for at this stage
- Trapping – what is it, and what is it for?
- A look at the different proofing options, colour profiles and calibration and the importance/effect of lighting conditions on perception. The FOGRA wedge and its uses.
- What to check for on a proof, what you can and cannot see
- Impositions – what is imposition, why could it be helpful to know this in advance



- Plotter Proofs – what are they and what should you check for
- Plate Making – The technology, how litho plates work and how they are made
- Allowances on the RIP for dot gain etc. What can be corrected here and what can go wrong.

The Different Print Processes

An introduction to the colour printing process, including a review of the different technologies available, and how to select the right one for your book.

Printing

An introduction to litho printing and press passing including:

- A demonstration of how the press is made ready and an explanation of the press and its controls.
- An explanation of tracking and the impact it can have on the finished book.
- A guide to press passing, what to look for, how to achieve the result you want. What is and isn't possible on press.
- A practical demonstration of the impact of different paper types on the printed result.
- What can go wrong and how to spot it on a finished book.
- When to use a spot colour and what are the advantages / pit falls.

Binding

An introduction to binding including:

- The different binding types, what they are, what the differences are and how to select the right one.
- What are the limitations of the technology and machinery – maximum trim sizes and extents.
- How spine widths are calculated

Finishing

An over view of the cover finishes available, their uses and limitations and their impact on design, costs and schedules.

Packing and Distribution

An introduction to distribution to include:



- An explanation of shipping terminology and documentation
- How long the elements take and what can be done to speed them up
- What does the shipper/printer need to know

Day 2 – Paper

How Paper is Made

An on-site / hands-on look at how paper is made. The materials used and how they affect the papers properties.

How to Assess Paper

A clear and practical session looking at the different properties of paper (bulk, opacity, grain direction etc.), paper types (coated / uncoated, matt, silk, gloss etc.) how to assess them and what impact they have on the finished product.

Paper and the Environment

What is the environmental impact of paper usage:

- What are PEFC and FSC, what are the differences, how to become accredited
- Acid Free etc
- Recycled

Day 3 – The Commercial Considerations

The Economics of Print

A practical session looking at:

- How to request a price – what does the supplier need to know and the conventional way to present it.
- How prices are constructed – an understanding of where the costs are accrued in the process and potential ways to reduce cost.
- How printers manage their work load/capacity planning. Make ready, how long it takes and the impact on cost etc.
- What do you need to consider when selecting a supplier, the type of equipment they have, location, quality, expertise, flexibility, service, reliability etc. Long term deals vs spot buying.



Co-editions

An introduction to the co-edition process, including:

- What do you need to consider when producing co-editions?
- How to set up the files, (text black etc.)
- What are the limitations it puts on the design
- What information should pass between the originator and the co-publisher
- The economics of co-editions
- How are they produced by the printer

How to Buy Paper

What to consider when purchasing paper, including:

- How to select the right paper for your job
- How to specify your needs to the paper mill/merchant
- Grain Direction – What is it and why is it important.
- How to calculate how much you need
- Replenishment of supply and the impact of surplus stock
- What can go wrong – how to spot a paper problem and resolve an issue (wavy books, shedding, etc.)
- The differences between US and UK paper supply

Course Length:

Please note that this course takes place in Trento, Italy and the course length is 2 and a half days + travel.

Due to the availability of flights, we usually fly to Verona on a Sunday in the afternoon; the course then runs from Monday to Wednesday, and we return to the UK on the afternoon of that Wednesday.

This course is currently taking registers of interest only, please note that BIC will not schedule a date for the course until we have a full list of delegates. Once enough delegates have registered their interest in this course, BIC will liaise with the interested parties to arrange a suitable date for the course to take place. We will endeavour to run the course within 6-8 weeks of a full group being identified.



Course Dates:

TBC.

Price:

<i>BIC Members</i>	<i>£450+ VAT</i>
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<i>Friends of BIC</i>	<i>£520+ VAT</i>
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<i>Non Members</i>	<i>£590+ VAT</i>
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Please note: travel and accommodation costs are **not** included in the above prices.

Course Trainers:

Heather O'Connell – Consultant

Heather has more than 20 years' experience in book publishing. Specialising in book production she has held various positions including Production Director for Penguin Publishing and Harper Collins. She now runs a consultancy, using her passion for and knowledge of the industry to support a broad range Print and Publishing clients and industry initiatives.

Emanuele Cheller – Technical Manager, Printer Trento

Emanuele is responsible for the management of Printer Trento's technical office. He has a wealth of knowledge and experience in book production, including pre-press, press and post-production processes.

Cartiere del Garda

Established in 1956, Cartiere del Garda is now the second largest manufacturer of coated wood-free paper in Europe. Four members of Cartiere del Garda's staff facilitate the training provided during this course including: Edoardo Vincenzi, Customer Technical Assistance Manager; Mauro Ratto, Technology Manager; Alessandro Nardelli, International Publishing Coordinator at Lecta Group SA; and Fabio Silvi, Environmental Management System Manager.