



Graphic Arts

Merit Badge Workbook

This workbook is not required but is designed to help you with this merit badge. No one can add or subtract from the Boy Scout Requirements #33215. Use page backs & add pages as needed. Please send comments to: craig@craiglincoln.com. Requirements revised: 1998, Workbook updated: January 2004.

Scout's Name: _____ Unit: _____

Counselor's Name: _____ Counselor's Ph #: _____

1) Review with your counselor the processes for producing printed communications:

offset lithography, _____

screen process printing, _____

electronic/digital, _____

relief, _____

and gravure. _____

You may show samples or draw diagrams to help with your description. *(Hint: You can include your work.)*

2) Explain the difference between continuous-tone, _____

line, _____

and halftone artwork. _____

Describe how it can be created and/or stored in a computer.

continuous-tone _____

line _____

halftone _____

3) Design a printed piece (flier, T-shirt, program, form, etc.) and produce it. *(Hint: You can include with this workbook.)*

Explain your decisions for the typeface or typefaces you use _____

and the way you arrange the elements in your design. _____

Explain which printing process is best suited for printing your design. _____

If desktop publishing hardware and software are available, identify what hardware and software would be appropriate for outputting your design. _____

4) Produce the design you created for requirement 3 using one of the following printing processes:

a) Offset lithography

Make a layout and then produce a plate using a process approved by your counselor. Run the plate and print at least 50 copies. *(Hint: You can include a sample with your workbook.)*

b) Screen process printing

Make a hand-cut or photographic stencil and attach it to a screen that you have prepared. Mask the screen and print at least 20 copies. *(Hint: You can include a sample with your workbook.)*

c) Electronic/digital printing

Make a layout in electronic form, download it to the press or printer, and run 50 copies. If no electronic interface to the press or printer is available, you may print and scan a paper copy of the layout. *(Hint: You can include a sample.)*

d) Relief printing

Prepare a layout or set the necessary type. Make a plate or lock up the form. Use this to print 50 copies. *(Hint: You can include a sample with your workbook.)*

5) Review the following postpress operations with your counselor:

a) Discuss the finishing operations of padding, _____

drilling, _____

cutting, _____

and trimming. _____

b) Collect, describe, or identify examples of the following types of binding:

perfect, _____

spiral, _____

