



Graphic Arts

Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet (book). No one can add or subtract from the Boy Scout Requirements #33216. Each Scout must do each requirement. Merit Badge Workbooks and more: [Online Resources](#). Send comments to the workbook developer: craig@craiglincoln.com. Requirements revised: 01/1/10, Workbook updated: 02/10.

Scout's Name: _____ Unit: _____

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

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

offset lithography, _____

screen printing, _____

electronic/digital, _____

relief, _____

and gravure. _____

Collect samples of three products, each one produced using a different printing process, or draw diagrams to help with your description. _____

2. Explain the difference between continuous-tone, _____

line, _____

and halftone artwork. _____

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

3. Design a printed piece (flier, T-shirt, program, form, etc.) and produce it. _____

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 is 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 produce a plate using a process approved by your counselor. Run the plate and print at least 50 copies.

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.

c. Electronic/digital printing _____

Create 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.

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.

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, _____

plastic comb, _____

saddle stitched, _____

and case. _____

