GRAPhIC ARTS

“Enhancing our youths’ competitive edge through merit badges”
Requirements

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 differences between continuous tone, line, and halftone artwork. Describe how digital images 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 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.

6. Do ONE of the following, then describe the highlights of your visit:
   
a. Visit a newspaper printing plant. Follow a story from the editor to the press.

   b. Visit a retail, commercial, or in-plant printing facility. Follow a project from beginning to end.

   c. Visit a school’s graphic arts program. Find out what courses are available and what the prerequisites are.

   d. Visit three websites (with your parent’s permission) that belong to graphic arts professional organizations and/or printing-related companies (suppliers, manufacturers, printers). With permission from your parent or counselor, print out or download product or service information from two of the sites.

7. Find out about three career opportunities in graphic arts. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.
Graphic Arts Resources

Scouting Literature
American Business, Art, Communication, Digital Technology, Journalism, and Photography merit badge pamphlets

Visit the Boy Scouts of America's official retail website (with your parent's permission) at http://www.scoutstuff.org for a complete listing of all merit badge pamphlets and other helpful Scouting materials and supplies.

Books


**Organizations and Websites**

**Graphic Comm Central**

Website: http://www.graphiccommcentral.org

This portal site for graphic communications education and training includes links to lessons and activities as well as career resources and virtual tours of printing plants.

**Print and Graphics Scholarship Foundation**

Website: http://www.printing.org/page/3273

This online resource provides information about applying for college scholarships to study graphic communications.
Vocational Information Center: Graphic Arts and Printing Career Guide
Website: http://www.khake.com/page27.html
This site provides a comprehensive listing of links to descriptions of hundreds of career opportunities in the fields of graphic arts and printing.

Acknowledgments
The Boy Scouts of America thanks the following members of the International Graphic Arts Education Association who contributed their time and expertise to update this new edition of the Graphic Arts merit badge pamphlet: A. Thomas Loch, John Craft, Dave Dailey, Dave Hayes, Ken Kulakowsky, James Nelson, Michael Stinnett, Ken Stoffregen, James Tenorio, and Mike Williams.

We appreciate Quebecor World, Dallas, Texas, and Barron Litho, Fort Worth, Texas, for allowing us to photograph their facilities for some of the photos used in this pamphlet.

The BSA gratefully acknowledges the following additional IGAEA individuals who contributed to previous editions of the Graphic Arts merit badge pamphlet, upon which this new edition is based: Chuck Brown, Michael Cermak, Kevin Chederquist, Linda Laney, Warren Mack, Glen Moerdyk, Edward Prahl, Robert Rateno, Thomas Vogt, Gary Walton, Mark Watanabe, and John Wilson.

The Boy Scouts of America is grateful to the men and women serving on the Merit Badge Maintenance Task Force for the improvements made in updating this pamphlet.

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Wikipedia.org—pages 12, 14, and 29
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John McDearmon—all illustrations on pages 17–18, 20, 22, 40, and 72
Randy Piland—page 69 (memory cards)