GRAPHIC ARTS MERIT BADGE WORKBOOK

REQUIREMENT 1:	Review with your counselor the processes for producing printed communications: offset lithography, screen printing, electronic/digital, relief, and gravure.

Offset Lithography:

Screen Printing:

Electronic / Digital:

Relief:

Gravure:

| REQUIREMENT 1: | Collect samples of three products, each one produced using a different printing process, or draw diagrams to help with your description. |

Product 1:

Product 2:

Product 3:

REQUIREMENT 2:	Explain the differences between continuous tone, line, and halftone artwork.

Continuous Tone:

Line:

Halftone:

REQUIREMENT 2:	Describe how digital images can be created and/or stored in a computer.

Notes:

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

Be sure to review the merit badge pamphlet for preparation information on this requirement.

This requirement must be reviewed with your merit badge counselor.

REQUIREMENT 3:	Explain your decisions for the typeface or typefaces you use and the way you arrange the elements in your design.

Notes:

REQUIREMENT 3:	Explain which printing process is best suited for printing your design.

Notes:

REQUIREMENT 3:	If desktop publishing is available, identify what hardware and software would be appropriate for outputting your design.

Notes:

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

DO ONE OF THE FOLLOWING (4A, 4B, 4C, or 4D) FOR REQUIREMENT 4

REQUIREMENT 4a:	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.

Be sure to review the merit badge pamphlet for preparation information on this requirement.

This requirement must be reviewed with your merit badge counselor.

Be sure to bring any work you have done in preparation to share with your merit badge counselor.

_____
Counselor's Name

_____
Phone

_____
Counselor's Signature

_____
Date

☐ *approved*

REQUIREMENT 4b	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.

Be sure to review the merit badge pamphlet for preparation information on this requirement.

This requirement must be reviewed with your merit badge counselor.

Be sure to bring any work you have done in preparation to share with your merit badge counselor.

REQUIREMENT 4c:	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.

Be sure to review the merit badge pamphlet for preparation information on this requirement.

This requirement must be reviewed with your merit badge counselor.

Be sure to bring any work you have done in preparation to share with your merit badge counselor.

REQUIREMENT 4d:	Relief printing. Prepare a layout or set the necessary type. Make a plate or lock up the form. Use this to print 50 copies

Be sure to review the merit badge pamphlet for preparation information on this requirement.

This requirement must be reviewed with your merit badge counselor.

Be sure to bring any work you have done in preparation to share with your merit badge counselor.

REQUIREMENT 5a:	Discuss with your counselor the finishing operations of padding, drilling, cutting, and trimming.

Be sure to review the merit badge pamphlet for preparation information on this requirement.

This requirement must be reviewed with your merit badge counselor.

Padding:

Drilling:

Cutting:

Trimming:

REQUIREMENT 5b:	Collect, describe, or identify examples of the following types of binding: perfect, spiral, plastic comb, saddle-stitched, and case and review with your counselor.

Perfect:

Spiral:

Plastic Comb:

Saddle-Stitched:

Case:

DO ONE OF THE FOLLOWING (6A, 6B, 6C, or 6D), THEN DESCRIBE THE HIGHLIGHTS OF YOUR VISIT

REQUIREMENT 6a:	Visit a newspaper printing plant. Follow a story from the editor to the press.

Facility:

Location:

Date and Time of Visit:

Notes:

REQUIREMENT 6b:	Visit a retail, commercial, or in-plant printing facility. Follow a project from beginning to end.

Facility:

Location:

Date and Time of Visit:

Notes:

REQUIREMENT 6c:	Visit a school's graphic arts program. Find out what courses are available and what the prerequisites are.

Facility:

Location:

Date and Time of Visit:

Notes:

Graphic Arts Merit Badge

REQUIREMENT 6d:	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.

_____
Parent's Name

_____
Phone

_____
Parent's Signature

_____
Date

☐ _permission_

Website #1:

Product or Service information downloaded and printed from this website:

Website #2:

Product or Service information downloaded and printed from this website:

Website #3:

Product or Service information downloaded and printed from this website:

REQUIREMENT 7:	Find out about three career opportunities in graphic arts.

Career Opportunity #1:

Career Opportunity #2:

Career Opportunity #3:

REQUIREMENT 7:	Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor.

Selected Career Opportunity:

Educational Requirements:

Training Requirements:

Experience Requirements:

REQUIREMENT 7:	Explain why this profession might interest you.

Notes: