DRAFTING MERIT BADGE WORKBOOK

This Scoutmaster Bucky Merit Badge Workbook is based off the current Scouts BSA Requirements.

Consider also using the Drafting merit badge class preparation page for clarification and expections when participating in a Scoutmaster Bucky merit badge opportunity (online or in-person).

https://scoutmasterbucky.com/merit-badges/drafting/

Scout's Name:
REQUIREMENT 1: Format TWO sheets of drawing paper with proper borders and title blocks—one for your manual project (see requirement 2) and one for your lettering project (see requirement 5).
Completed
REQUIREMENT 1 A: Make a rough sketch for each of your project drawings to determine the correct size of paper to format.
Completed
REQUIREMENT 1 B: Using either single-stroke vertical or slant Gothic lettering, fill in all important information in the title block sections of the formatted paper.
Completed
REQUIREMENT 2: Using the formatted sheet of paper you prepared for your manual project, produce a pencil drawing as it would be used for manufacturing. Fill in all title block information. The manual drawing may be any one of the following drawing types:
a. Architectural: Make a scale drawing of an architectural project. The architectural drawing may be a floor plan; electrical, plumbing, or mechanical service plan; elevation plan; or landscaping plan. Use an architect's scale and show dimensions to communicate the actual size of features. Include any important sectional drawings, notes, and considerations necessary for construction.
b. Mechanical: Make a scale drawing of some mechanical device or interesting object. The mechanical drawing may be of the orthographic or isometric style. Use an engineer's scale and show dimensions to communicate the actual size of features. Include any important sectional drawings, notes, and manufacturing considerations.
c. Electrical: Draw a simple schematic of a radio or electronic circuit. Properly print a bill of materials including all of the major electrical components used in the circuit. Use standard drawing symbols to represent the electronic components.
Completed

REQUIREMENT 3: Produce a computer-aided design (CAD) drawing as it would be used in manufacturing. Fill in all title block information. The CAD drawing may be any one of the following drawing types:
a. Architectural: Make a scale drawing of an architectural project. The architectural drawing may be a floor plan; electrical, plumbing, or mechanical service plan; elevation plan; or landscaping plan. Use an architect's scale and show dimensions to communicate the actual size of features. Include any important sectional drawings, notes, and considerations necessary for construction.
b. Mechanical: Make a scale drawing of some mechanical device or interesting object. The mechanical drawing may be of the orthographic or isometric style. Use an engineer's scale and show dimensions to communicate the actual size of features. Include any important sectional drawings, notes, and manufacturing considerations.
c. Electrical: Draw a simple schematic of a radio or electronic circuit. Properly print a bill of materials including all of the major electrical components used in the circuit. Use standard drawing symbols to represent the electronic components.
REQUIREMENT 4: Discuss with your counselor how fulfilling requirements 2 and 3 differed from each other. Tell about the benefits derived from using CAD for requirement 3. Include in your discussion the software you used as well as other software options that are available.
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Benefits derived from using CAD for requirement 3
The software you used as well as other software options that are available

REQUIREMENT 5: Using single-stroke slant or vertical Gothic lettering (without the aid of a template or lettering guide), write a brief explanation of what you consider to be the most important benefit in using CAD in a particular industry (aerospace, electronics, manufacturing, architectural, or other). Use the experience gained in fulfilling requirements 2, 3, and 4 to support your opinion. Use the formatted sheet of paper you prepared in requirement 1 for your lettering project.
Completed
REQUIREMENT 6: Do ONE of the following (a or b):
REQUIREMENT 6 A: Visit a facility or industry workplace where drafting is part of the business. Ask to see an example of the work that is done there, the different drafting facilities, and the tools used.
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REQUIREMENT 6 A 1: Find out how much of the drafting done there is manual and how much is done using CAD. If CAD is used, find out what software is used and how and why it was chosen.
REQUIREMENT 6 A 2: Ask about the drafting services provided. Ask who uses the designs produced in the drafting area and how those designs are used. Discuss how the professionals who perform drafting cooperate with other individuals in the drafting area and other areas of the business.
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REQUIREMENT 6 A 3: Ask how important the role of drafting is to producing the end product or service that this but	usiness
supplies. Find out how drafting contributes to the company's end product or service.	
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REQUIREMENT 6 B: Using resources you find on your own such as at the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the Internet (with your particular to the library and on the library to t	arent s
permission), learn more about the drafting trade and discuss the following with your counselor.	
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REQUIREMENT 6 B 1: The drafting tools used in the past—why and how they were used. Explain which tools a	ra still
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REQUIREMENT 6 B 3: Discuss whether t	the types of media have changed such that there are new uses for the drawings,
or other outputs, produced by designers.	Briefly discuss how new media types are used in the industry today.
REQUIREMENT 7: Find out about three of	career opportunities in drafting. Pick one and find out the education, training, and
you.	Discuss this with your counselor, and explain why this profession might interest
Three career opportunities	
Three career opportunities	
Education, training, and experience required for on	e profession
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