



# WOODWORKING

## Merit Badge Requirements

1. Do the following:
  - a. Describe how timber is grown, harvested, and milled. Tell how lumber is cured, seasoned, graded, and sized.
  - b. Collect and label blocks of six kinds of wood useful in woodworking. Describe the chief qualities of each. Give the best uses of each.
2. Do the following:
  - a. Show proper care and use of all working tools and which you own or use at home or school.
  - b. Sharpen correctly the cutting edges of two tools.
3. Make something useful of wood. Use a saw, plane, hammer, and brace and bit to make it. Cut parts from lumber, which you have measured and squared from working drawings.
4. Do the following:
  - a. Make a working drawing of a carpentry project. List the material needed.
  - b. Make it. Report on the time spent and cost of things used.
5. Do any TWO of the following:
  - a. Make working drawings of a project needing
    1. Beveled or rounded edges or curved or incised cuttings.
    2. Miter, dowel, or mortise and tenon joints. Make it.
  - b. Make something for which you have to turn duplicate parts on a lathe.
  - c. Make a cabinet, box or something else with a door or lid fastened with inset hinges.
  - d. Help make and repair wooden toys for needy children; or help carry out a carpentry service project.
  - e. Make a scale model of a house or barn.
6. Talk with a cabinetmaker or carpenter. Find out job opportunities and conditions, needed training, apprenticeship, work hours, pay rates, and union organization for woodworking craftsmen where you live.

BSA Advancement ID#: 119

Source: *Boy Scout Requirements*, #33215E, revised 2002

## Requirement 1

Describe how timber is grown: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Describe how timber is harvested: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Describe how timber is milled: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Tell how lumber is cured: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Tell how lumber is seasoned: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Tell how lumber is graded: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Tell how lumber is sized: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Collect and label blocks of six kinds of wood useful in woodworking. Using the space below, describe the chief qualities of each and the best uses of each.

Type of wood: \_\_\_\_\_ Best Use: \_\_\_\_\_

Chief Qualities: \_\_\_\_\_

Type of wood: \_\_\_\_\_ Best Use: \_\_\_\_\_

Chief Qualities: \_\_\_\_\_

Type of wood: \_\_\_\_\_ Best Use: \_\_\_\_\_

Chief Qualities: \_\_\_\_\_

Type of wood: \_\_\_\_\_ Best Use: \_\_\_\_\_

Chief Qualities: \_\_\_\_\_

Type of wood: \_\_\_\_\_ Best Use: \_\_\_\_\_

Chief Qualities: \_\_\_\_\_

## Requirement 2

Show proper care and use of all working tools and equipment which you own or use at home or school. Use the area below to describe some of the general ways to show proper care and use: \_\_\_\_\_

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Sharpen correctly the cutting edges of two tools. List the tools and briefly describe how you sharpened them.

Tool 1: \_\_\_\_\_

Description of sharpening technique: \_\_\_\_\_

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Tool 2: \_\_\_\_\_

Description of sharpening technique: \_\_\_\_\_

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## Requirement 3

Make something useful of wood. Use each of the following tools:

\_\_\_\_\_ Saw    \_\_\_\_\_ Plane    \_\_\_\_\_ Hammer    \_\_\_\_\_ Brace & Bit

What did you build? \_\_\_\_\_

Cut parts from lumber which you have measured and squared from working drawings. Briefly describe what you did and how you did it: \_\_\_\_\_

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## Requirement 4

Use the back of this sheet to make working drawing of a carpentry project. Or use a different piece of paper and attach it to this worksheet when you are finished. List the materials needed to build this project.

Materials Needed:

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Build your project. What did you build? \_\_\_\_\_

How long did it take to build? \_\_\_\_\_ How much did it cost to build? \_\_\_\_\_

Show your drawing and your completed project to your counselor.

**Requirement 5**

You have been given five options for this requirement. Select and complete two of them.

If you selected *Option A*:

Make a working drawing of a project needing beveled or rounded edges or curved or incised cuttings and miter, dowel, or mortise and tenon joints. Use the back of this sheet or a separate sheet of paper for your drawing.

What project did you draw? \_\_\_\_\_

\_\_\_\_\_ Make your project & show it to your counselor.

If you selected *Option B*:

Make something for which you have to turn duplicate parts on a lathe.

What did you make? \_\_\_\_\_

\_\_\_\_\_ Show your project to your counselor.

If you selected *Option C*:

Make a cabinet, box or something else with a door or lid fastened with inset hinges.

What did you make? \_\_\_\_\_

\_\_\_\_\_ Show your project to your counselor.

If you selected *Option D*:

Help make and repair wooden toys for needy children; or help carry out a carpentry service project.

Which did you choose to do? \_\_\_\_\_

Briefly describe your experience: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If you selected *Option E*:

Make a scale model of a house or barn.

What model did you build? \_\_\_\_\_

\_\_\_\_\_ Show your model to your counselor.

