

Forestry

Merit Badge Workbook



This workbook can help you but you still need to read the merit badge pamphlet.

The work space provided for each requirement should be used by the Scout to make notes for discussing the item with his counselor, not for providing the full and complete answers. Each Scout must do each requirement.

No one may add or subtract from the official requirements found in **Boy Scout Requirements** (Pub. 33216 – SKU 34765).

The requirements were last issued or revised in 2006 • This workbook was updated in January 2014.

Scout's	s Name:_	Unit:
Counselor's Name:		ne: Counselor's Phone No.:
	Dlo	http://www.USScouts.Org • http://www.MeritBadge.Org
		ease submit errors, omissions, comments or suggestions about this <u>workbook</u> to: <u>Workbooks@USScouts.Org</u> s or suggestions for changes to the <u>requirements</u> for the <u>merit badge</u> should be sent to: <u>Merit.Badge@Scouting.Org</u>
1.		e a field notebook, make a collection, and identify 15 species of trees, wild shrubs, or vines in a local forested Vrite a description in which you identify and discuss the following:
	a.	The characteristics of leaf, twig, cone, or fruiting bodies
	b.	The habitat in which these trees, shrubs or vines are found.
	C.	The important ways each tree, shrub, or vine is used by humans or wildlife and whether the species is native or was introduced to the area. If it is not native, explain whether it is considered invasive or potentially invasive.
	(See th	e Sample Notebook Page at the end of this workbook)
2.	Do ONE	E of the following:
	☐ a.	Collect and identify wood samples of 10 species of trees. List several ways the wood of each species can be used. (See the Sample Notebook Page at the end of this workbook)
	□ b.	Find and examine three stumps, logs, or core samples that show variations in the growth rate of their ring patterns. In the field notebook you prepared for requirement 1, describe the location or origin of each example (including elevation, aspect, slope, and the position on the slope), and discuss possible reasons for the variations in growth rate. Photograph or sketch each example.
	c.	Find and examine two types of animal, insect, or damage on trees. In the field notebook you prepared for requirement 1, identify the damage, explain how the damage was caused, and describe the effects of the damage on the trees. Photograph or sketch each example.
3.	Do the	following:
	a.	Describe contributions forests make to:
		1. Our economy in the form of products.

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-	2.	Our social well-being, including recreation
	3.	Soil protection and increased fertility.
	4.	Clean water.
	5.	Clean air. (carbon cycling, sequestration)
		Contract (Contract Systems, Sequestration)
	6	Wildlife habitat
	0.	Wilding Habitat

Forestry		Scout's Name:
	7.	Fisheries habitat
	8.	Threatened and endangered species of plants and animals
b.	Tell	which watershed or other source your community relies on for its water supply.
4. Desci	ibe wh	at forest management means, including the following:
a.	Mul	tiple-use management
b.	Sus	tainable forest management

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	C.	Even-aged and uneven-aged management and silvicultural systems associated with each type.		
	d.	Intermediate cuttings.		
	e.	The role of prescribed burning and related forest management practices.		
5.	_ `	ur parent's and counselor's approval, do ONE of the following:		
	∐ a.	Visit a managed public or private forest area with its manager or a forester familiar with it. Write a brief report describing the type of forest, the management objectives, and the forestry techniques used to achieve the objectives.		
	□ b.	Take a trip to a logging operation or wood-using industrial plant and write a brief report describing:		
		 The species and size of trees being harvested or used and the location of the harvest area or manufacturer. 		
		2. The origin of the forest or stands of trees being utilized (e.g., planted or natural)		
		3. The forest's successional stage. What is its future?		
		4. Where the trees are coming from (land ownership) or where they are going (type of mill or processing plant)		
		5. The products that are made from the trees		
		6. How the products are made and used.		
	•	7. How waste materials from the logging operation or manufacturing plant are disposed of or utilized.		
	C.	Take part in a forest-fire prevention campaign in cooperation with your local fire warden, state wildfire agency, forester, or counselor. Write a brief report describing the campaign, how it will help prevent wildfires, and your part in it.		

Scout's Name:
ces to forests that result from FIVE of the following elements: wildfire, absence of fire, ir pollution, overgrazing, deer or other wildlife overpopulation, improper harvest, and
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Deer or other wildlife overpopulation:

Improper harvest:

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		Urbanization:	
	b.	Explain what can be do	one to reduce the consequences you discussed in 6a.
	C.	Describe what you sho it.	ould do if you discover a forest fire and how a professional firefighting crew might control
		What to do:	
		How a professional fire	efighting crew might control it.
		Name of the same	-1246
		Name your state or loc	al wildfire control agency.
□ 7 \ <i>i</i>	lioit on	or mare lead forestore	and write a brief report about the person (or persons). Or write about a fercetor's
			and write a brief report about the person (or persons). Or, write about a forester's ion, qualifications, career opportunities, and duties related to forestry.
		http://www	Requirement resources can be found here: .meritbadge.org/wiki/index.php/Forestry#Requirement resources

Forestry - Merit Badge Workbook

Forestry	Scout's Name:
FULESTIA	Scouts name.

SAMPLE for Req. 1A-1D: Field Notebook Collection Identifying 15 Species of Trees

	Attach san	nples here
Species		
Habitat:		
Characteristics		
l loos:		
Uses:		
Native/Invasive?		

Forestry Scout's Name: _____

SAMPLE for Req. 2A: Field Notebook Collection Identifying 10 Wood Samples

	Attach san	mples here
Species		
Uses:		
	Attach sar	mples here
	Attach sar	nples here
	Attach sar	mples here
	Attach sar	mples here
	Attach sar	mples here
Species	Attach sar	mples here
Species Uses:	Attach sar	mples here
	Attach sar	mples here

Important excerpts from the Guide To Advancement - 2013, No. 33088 (SKU-618673)

[1.0.0.0] — Introduction

The current edition of the *Guide to Advancement* is the official source for administering advancement in all Boy Scouts of America programs: Cub Scouting, Boy Scouting, Versity Scouting, Venturing, and Sea Scouts. It replaces any previous BSA advancement manuals, including *Advancement Committee Policies and Procedures*, *Advancement and Recognition Policies and Procedures*, and previous editions of the *Guide to Advancement*.

[Page 2, and 5.0.1.4] — Policy on Unauthorized Changes to Advancement Program

No council, committee, district, unit, or individual has the authority to add to, or subtract from, advancement requirements. There are limited exceptions relating only to youth members with special needs. For details see section 10, "Advancement for Members With Special Needs".

[Page 2] — The "Guide to Safe Scouting" Applies

Policies and procedures outlined in the *Guide to Safe Scouting*, No. 34416, apply to all BSA activities, including those related to advancement and Eagle Scout service projects.

[7.0.3.1] — The Buddy System and Certifying Completion

A youth member must not meet one-on-one with an adult. Sessions with counselors must take place where others can view the interaction, or the Scout must have a buddy: a friend, parent, guardian, brother, sister, or other relative—or better yet, another Scout working on the same badge—along with him attending the session.

When the Scout meets with the counselor, he should bring any required projects. If these cannot be transported, he should present evidence, such as photographs or adult verification. His unit leader, for example, might state that a satisfactory bridge or tower has been built for the Pioneering merit badge, or that meals were prepared for Cooking. If there are questions that requirements were met, a counselor may confirm with adults involved. Once satisfied, the counselor signs the blue card using the date upon which the Scout completed the requirements, or in the case of partials, initials the individual requirements passed.

Note that from time to time, it may be appropriate for a requirement that has been met for one badge to also count for another. See "Fulfilling More Than One Requirement With a Single Activity," 4.2.3.6.

[7.0.3.2] — Group Instruction

It is acceptable—and sometimes desirable—for merit badges to be taught in group settings. This often occurs at camp and merit badge midways or similar events. Interactive group discussions can support learning. The method can also be attractive to "guest experts" assisting registered and approved counselors. Slide shows, skits, demonstrations, panels, and various other techniques can also be employed, but as any teacher can attest, not everyone will learn all the material.

There must be attention to each individual's projects and his fulfillment of *all* requirements. We must know that every Scout —actually and *personally*— completed them. If, for example, a requirement uses words like "show," "demonstrate," or "discuss," then every Scout must do that. It is unacceptable to award badges on the basis of sitting in classrooms *watching* demonstrations, or remaining silent during discussions. It is sometimes reported that Scouts who have received merit badges through group instructional settings have not fulfilled all the requirements. To offer a quality merit badge program, council and district advancement committees should ensure the following are in place for all group instructional events.

- Merit badge counselors are known to be registered and approved.
- Any guest experts or guest speakers, or others assisting who are not registered and approved as merit badge counselors, do not accept the
 responsibilities of, or behave as, merit badge counselors, either at a group instructional event or at any other time. Their service is temporary, not
 ongoing.
- Counselors agree not to assume prerequisites have been completed without some level of evidence that the work has been done. Pictures and
 letters from other merit badge counselors or unit leaders are the best form of prerequisite documentation when the actual work done cannot be
 brought to the camp or site of the merit badge event.
- There is a mechanism for unit leaders or others to report concerns to a council advancement committee on summer camp merit badge programs, group instructional events, and any other merit badge counseling issues—especially in instances where it is believed BSA procedures are not followed. See "Reporting Merit Badge Counseling Concerns," 11.1.0.0.
- There must be attention to each individual's projects and his fulfillment of all requirements. We must know that every Scout—actually and personally—completed them.

[7.0.3.3] — Partial Completions

A Scout need not pass all the requirements of one merit badge with the same counselor. It may be that due to timing or location issues, etc., he must meet with a different counselor to finish the badge. The Application for Merit Badge has a place to record what has been finished—a "partial." In the center section on the reverse of the blue card, the counselor initials for each requirement passed. In the case of a partial completion, the counselor does not retain his or her portion of the card. A subsequent counselor may choose not to accept partial work, but this should be rare. A Scout, if he believes he is being treated unfairly, may work with his unit leader to find another counselor. An example for the use of a signed partial would be to take it to camp as proof of prerequisites. Partials have no expiration except the Scout's 18th birthday. Units, districts, or councils shall not establish other expiration dates for partial merit badges.

[7.0.4.8] — Unofficial Worksheets and Learning Aids

Worksheets and other materials that may be of assistance in earning merit badges are available from a variety of places including unofficial sources on the Internet and even troop libraries. Use of these aids is permissible as long as the materials can be correlated with the current requirements that Scouts must fulfill. Completing "worksheets" may suffice where a requirement calls for something in writing, but this would not work for a requirement where the Scout must discuss, tell, show, or demonstrate, etc. Note that Scouts shall not be required to use these learning aids in order to complete a merit badge.