

Surveying

Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet (book). No one can add or subtract from the Boy Scout Requirements #33215. Merit Badge Workbooks and much more are below: Online Resources.

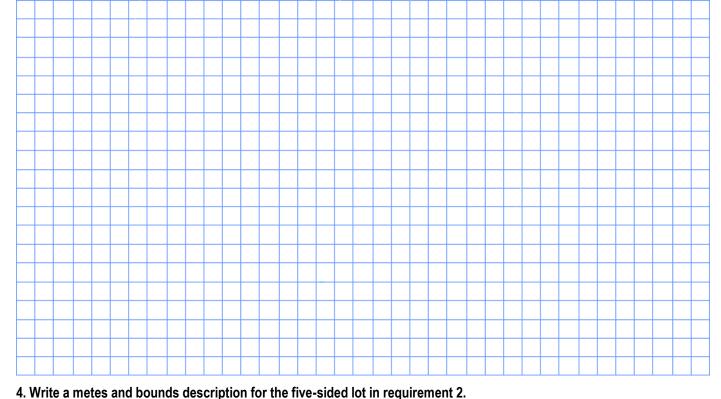
Workbook developer: craig@craiglincoln.com. Requirements revised: 2005, Workbook updated: April 2008.

Scout's Name:	Unit:	
	Counselor's Ph #:	
1. Show that you know first aid for the types	s of injuries that could occur while surveying, including	
cuts,		
scratches,		
insect stings,		
tick bites,		
heat and cold reactions,		
and dehydration.		
	hould be able to identify the poisonous plants and poisonous animals	that
	lot that has been laid out by your counselor to fit the land available. S cord the angle turned between each line and the distance measured be	

With the assistance of the counselor, compute the error of closure from the recorded notes. The error of closure must not be more than 5 feet.

From the corners, take compass readings or turn angles to trees, shrubs, and rocks, and measure to them. All measurements should be made using instruments, methods, and accuracies consistent with current technology.

3. From the field notes gathered for requirement 2, draw to scale a map of your survey. Submit a neatly drawn copy.



5. Use one of the corner markers from requirement 2 as a benchmark with an assumed elevation of 100 feet. Using a level and rod, determine the elevation of the other four corner markers.

Surveying p. 3	Merit Badge Workbook	Scout's Name:
	our property, or a piece of property assign	ed by your counselor, from the local courthouse
7. Tell what GPS is;		
discuss with your counselor th	ne importance of GPS and how it is chang	ing the field of surveying
8. Discuss the importance of s	urveying with a licensed surveyor.	
Also discuss the various types	s of surveying and mapping, and application	ons of surveying technology to other fields
Discuss career opportunities i	n surveying and related fields.	
Discuss the qualifications and	preparation for such a career.	
Online Resources (Use any Int Boy Scouts of America: ► scou	ternet resource with caution and only with you uting.org ► Guide to Safe Scouting ► A	ur parent's or guardian's permission.) uge-Appropriate Guidelines ► Safe Swim Defense
► <u>Scout</u> ► <u>Tende</u>		■ Rank Videos ► Safety Afloat
•		lerit Badge Books: www.scoutstuff.org
•	g and Mapping: http://www.acsm.net /contact	t html
Map symbols: http://erg.usgs.gov	•	<u>CHUH</u>
U.S. Geological Survey: http://ww	•	ographical Maps \$6 each: http://store.usgs.gov/
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