



SCOUTMASTER BUCKY

Surveying Business Merit Badge Workbook

ScoutmasterBucky.com or ScoutmasterBucky@yahoo.com or 612-483-0665

Scouts participating in a Scoutmaster Bucky merit badge opportunity, whether online or in person, should consider using the Surveying merit badge pamphlet for discovery and knowledge, along with the class preparation pages for clarifications, insights, and expectations. These resources are available here:

<https://scoutmasterbucky.com/merit-badges/surveying/>

REQUIREMENT 1: Show that you know first aid for the types of injuries that could occur while surveying, including cuts, scratches, snakebite, insect stings, tick bites, heat and cold reactions, dehydration.

CUTS:

Notes:

SCRATCHES:

Notes:

SNAKEBITE:

Notes:



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INSECT STINGS:

Notes:

TICK BITES:

Notes:

HEAT AND COLD REACTIONS:

Notes:

DEHYDRATION:

Notes:



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REQUIREMENT 1:	Explain to your counselor why a surveyor should be able to identify the poisonous plants and poisonous animals that are found in your area.
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Notes:

REQUIREMENT 2a:	Set an instrument over one of the corners of a five-sided lot laid out by your counselor and sighting one of the other corners for reference and, using radial measurement methods, record the angle turned and the distance measured to each of the remaining corners, as directed by your counselor. Record the angle and distance to five topographic features (trees, shrubs, rocks, etc.) near your work area.
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If choosing this requirement option, you will need to share your work with your counselor

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

Notes:



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REQUIREMENT 2b: Measure to three of the same points with GPS measurement and compare the distances between the points measured.

If choosing this requirement option, you will need to share your work with your counselor

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

Notes:

REQUIREMENT 3: From the field notes gathered for requirement 2, and using a protractor and scale, plot the points you measured and draw to scale a map of your survey which includes a north arrow, scale bar, title, date and a diagram of the lot you measured. Submit a neatly drawn copy.

Notes:



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REQUIREMENT 4: Use one of the corner markers from requirement 2 as a benchmark with an assumed elevation of 100 feet. Using a level and rod, collect and record measurements, and determine the elevation of the other four corner markers.

If choosing this requirement option, you will need to share your work with your counselor

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

Notes:

REQUIREMENT 5: Get a copy of the deed to a piece of property approved by your counselor, from the local courthouse or title agency. Discuss with your counselor the different parts of the deed and their importance.

If choosing this requirement option, you will need to share your work with your counselor

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BE PREPARED!

Notes:



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REQUIREMENT 6:	Discuss emerging surveying technology such as drones and laser scanning and the strengths and weaknesses of each.
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DRONES:

Strengths:

Weaknesses:

LASER SCANNING:

Strengths:

Weaknesses:



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REQUIREMENT 7: Tell what GPS is.

Notes:

REQUIREMENT 7: Discuss with your counselor the importance of GPS in the field of surveying.

Notes:

REQUIREMENT 7: Discuss with your counselor the importance of how GPS is changing the field of surveying.

Notes:



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REQUIREMENT 8: Identify three career opportunities that would use skills and knowledge in surveying.

Career Opportunity #1:

Career Opportunity #2:

Career Opportunity #3:

REQUIREMENT 8: Pick one and research the training, education, certification requirements, experience, and expenses associated with entering the field.

Selected Career Opportunity:

Training Requirements:

Education Requirements:

Certification Requirements:

Experience Requirements:



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Expenses associated with entering the field:

REQUIREMENT 8: Research the prospects for employment, starting salary, advancement opportunities and career goals associated with this career.

Prospects for Employment:

Starting Salary:

Advancement Opportunities:

Career Goals:

REQUIREMENT 8: Discuss what you learned with your counselor and whether you might be interested in this career.

Notes: