

SURVEYING

SAINTS GLOBAL MEMBER

NAME:

BATTALION:

TROOP:

SKILL BADGE ADVISOR

NAME:

EMAIL:

PHONE:

STEP 1 | DISCOVER

INITIALS

- a) Demonstrate first aid responses for injuries and conditions that could occur while surveying, and explain why surveyors must identify local poisonous plants and animals.

STEP 2 | PLAN

INITIALS

- a) Set up a surveying instrument on a designated corner point and plan a radial measurement survey of a five-sided lot.

STEP 3 | ACT

INITIALS

- a) Conduct a radial survey of a five-sided lot and nearby topographic features using traditional instruments.
- a.1) Measure and record angles and distances to each corner
- a.2) Measure and record five nearby topographic features
- a.3) Maintain clear, organized field notes
- b) Measure the same points using GPS technology and compare results to traditional measurements.
- b.1) Record GPS distances to selected points
- b.2) Compare differences between methods
- b.3) Explain reasons for discrepancies

- c) Plot collected field data and produce a scaled map of the surveyed lot. _____
 - c.1) Plot points using a protractor and scale _____
 - c.2) Include north arrow, scale bar, title, date, and diagram _____
 - c.3) Maintain proportional accuracy _____
- d) Establish elevations using a benchmark and leveling equipment. _____
 - d.1) Assign an assumed elevation to a benchmark _____
 - d.2) Measure and record rod readings _____
 - d.3) Calculate elevations of remaining points _____
- e) Obtain and explain the key parts of a property deed and why they matter. _____

STEP 4 | REFLECT

INITIALS

- a) Explain how GPS, drones, laser scanning, and other emerging technologies are changing surveying, including strengths and limitations. _____
- b) Describe the importance of licensed surveyors, types of surveying, and career pathways in surveying and related fields. _____

Continue to next page for certification signature

END OF REQUIREMENTS

**BY SIGNING BELOW, I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT ALL
REQUIREMENTS WERE MET AT OR ABOVE THE REQUIRED STANDARDS AS OUTLINED
IN THE BADGE REQUIREMENTS CHECKLIST.**

SKILL BADGE ADVISOR

DATE (YYYY-MM-DD)