

The applicant should prepare himself and expect to be tested on the following subjects:

1. Various grades of accuracy needed and the field procedures necessary to obtain them, plus an understanding of the difference between accuracy, precision and consistency.
2. Types of surveying errors and how they are handled.
3. Global Positioning System.
4. Volume calculation by the AEA method.
5. Simple horizontal curves.
6. Vertical curves.
7. Hydraulics as they apply to Wyoming water rights and procedures for filing water right applications.
8. Determination of a true bearing by celestial or solar observations.
9. A working knowledge of the NGS and USGS triangulation and level networks over the state.
10. A working knowledge of the state plane coordinate system.
11. Basic principles of photogrammetry and the applications of land surveying.
12. A working knowledge of electronic and light distance measuring devices.
13. Construction staking procedures.
14. A general knowledge of the history and layout of the Public Land Survey System in Wyoming together with a thorough understanding of the surveying procedures and principles involved.
15. Knowledge of the state laws as they pertain to surveying and the filing of plats.
16. Knowledge of the public records available, their location, and how to use them.
17. Understanding and writing of the various kinds of land descriptions.
18. The proper relationship between the different deed calls and the proper handling of discrepancies between deed calls and monuments.
19. Senior and Junior deed rights.
20. State mining laws as they relate to surveying.
21. Importance of original monuments.
22. Proper procedures for restoring or witnessing monuments.
23. Proper procedures for EVALUATING evidence and restoring LOST or OBLITERATED corners.
24. Legal subdivisions of a section to properly locate interior aliquot parts of a section.
25. Basic Riparian Rights.
26. Survey procedures and data necessary for the preparation of a plat for filing of a subdivision without the incorporated limits of a city or town or an addition within the incorporated limits of a city or town.
27. Duties and responsibilities of a surveyor to the public, his clients or employers and to the profession.
28. Statutory monumentation of surveys.
29. Wyoming Statutes, 1997, as amended, Section 33-29-140 through 33-29-149 Corner Perpetuation and Filing Act.
30. Wyoming Statutes, 1987, Section 33-29-114 through 33-29-139 Surveyors and Engineers Practice Act.