

**GEOGRAPHIC INFORMATION SYSTEMS
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***** EXAMINATION *****

TENNESSEE LAND SURVEYORS LAWS AND REGULATIONS

1. **The practice of land surveying is regulated in Tennessee in order to:**
 - a) protect the lives of the public
 - b) protect the health of the public
 - c) protect the property of the public
 - d) All of the above

2. **An unregistered land surveyor may use the following company name:**
 - a) ABC Surveys
 - b) RK Land Surveying
 - c) GPS/GIS Services
 - d) None of the above

3. **The following person may claim to be a land surveyor in Tennessee:**
 - a) A party chief
 - b) A land surveyor licensed in Tennessee
 - c) A geographic information system director
 - d) An unregistered public works department head

4. **'Board' means:**
 - a) the Tennessee Board of Land Surveying
 - b) the Tennessee Board of Technical Professions
 - c) the Tennessee State Board of Examiners for Land Surveyors
 - d) the Department of Agriculture

5. **The practice of land surveying does not include:**
 - a) Determining volumes for an engineering project
 - b) Layout of subdivisions
 - c) Subdivision drainage
 - d) None of the above

6. **A forester may:**
 - a) survey state forests
 - b) survey United States forests
 - c) prepare property descriptions of forest lands
 - d) None of the above

7. **The following represents land surveying:**
- a) Calculating taxes based on survey maps
 - b) A party chief carries his own business card offering land surveying
 - c) An architect notes square footage of a condominium
 - d) None of the above
8. **The board consists of:**
- a) 3 members
 - b) 4 members
 - c) 5 members
 - d) 6 members
9. **The board members are appointed by:**
- a) the Senate
 - b) the Tennessee Association of Professional Surveyors
 - c) the Department of Agriculture
 - d) the governor
10. **The term length of the members of the board are:**
- a) two years
 - b) four years
 - c) six years
 - d) None of the above -- term lengths vary.
11. **Qualified board members are selected:**
- a) from a university civil engineering department, TSPE, or TAPS
 - b) from the east, central, and west regions of Tennessee
 - c) from TSPE, TAPS, and the public
 - d) from ACSM members
12. **The terms of all members appointed begin on:**
- a) January 1
 - b) July 1
 - c) September 1
 - d) November 1
13. **Land surveyors appointed shall be recommended by:**
- a) NSPE
 - b) TSPE
 - c) TAPS
 - d) ACSM
14. **The board has:**
- a) one public member
 - b) two public members
 - c) three public members
 - d) No public members

15. **The public member must:**
 - a) practice surveying
 - b) be a resident of Tennessee
 - c) be employed by the board
 - d) None of the above -- there are no public members
16. **The term of the public member is:**
 - a) two years
 - b) four years
 - c) six years
 - d) None of the above -- there are no public members
17. **Each land surveyor board member shall:**
 - a) be a resident of the United States
 - b) be at least twenty-five years of age
 - c) be a resident of Tennessee for ten years
 - d) None of the above
18. **Before beginning their term of office, each board member shall:**
 - a) post a bond
 - b) resign from TAPS
 - c) file a constitutional oath of office with the secretary of state
 - d) None of the above
19. **The board has the following powers of the attorney general:**
 - a) compel the attendance of witnesses
 - b) administer oaths
 - c) take testimony concerning land surveying matters
 - d) All of the above
20. **The secretary of the board:**
 - a) is appointed by the governor
 - b) is the director of the department of commerce and insurance
 - c) is selected by vote of the members
 - d) is the public member
21. **The board shall meet at least:**
 - a) one time per year
 - b) two times per year
 - c) three times per year
 - d) four times per year
22. **Persons shall be exempt from continuing education if born prior to:**
 - a) January 1, 1920
 - b) January 1, 1928
 - c) January 1, 1935
 - d) January 1, 1945

23. **Financial operation of the board is governed:**
- a) by the Department of Commerce
 - b) by the secretary of state
 - c) by existing laws of the state of Tennessee
 - d) by the treasurer of the state
24. **The roster of all land surveyors shall be printed:**
- a) once a year
 - b) once every two years
 - c) at the request of the board
 - d) None of the above
25. **The roster shall include:**
- a) the names and places of business and of residence of all surveyors
 - b) the names, telephone number, and business address
 - c) the names, telephone number, and home address
 - d) the names, date of registration, and home address
26. **All land surveying applicants:**
- a) must speak English
 - b) have a college degree in civil engineering
 - c) have practiced surveying for 8 years
 - d) All of the above
27. **Accreditation of land survey degrees is determined by:**
- a) ABET
 - b) NCEES
 - c) the board
 - d) Any of the above
28. **Exams for land surveyors having passed the Fundamental of LS include:**
- a) SAT
 - b) ABET
 - c) Principles and Practice of Land Surveying and TN State Jurisdictional
 - d) NCEES PLSS
29. **Any applicant who fails the land surveying exam twice shall:**
- a) take a continuing education course
 - b) take an ethics course
 - c) take a college surveying course
 - d) satisfy the board that the applicant has diligently studied.
30. **Late renewals are subject to payment of renewal fee plus:**
- a) \$10 per month
 - b) \$20 per month
 - c) \$30 per month
 - d) \$35 per month

31. **The board may refuse to issue a certificate of registration to:**
- a) any surveyor committing fraud
 - b) any surveyor not complying with the minimum standards of surveying
 - c) any felon
 - d) All of the above
32. **Any disciplined registrant may appeal to:**
- a) the Department of Agriculture
 - b) the Department of Commerce and Insurance
 - c) the civil courts
 - d) the attorney general
33. **All notifications of revocations of licenses by the board shall be:**
- a) sent to each county affected
 - b) sent to the attorney
 - c) sent to NCEES
 - d) sent to adjoining state boards of registration for land surveying.
34. **The cost of replacement of lost certificates is:**
- a) no charge if the board is notified before renewal
 - b) \$20
 - c) \$50
 - d) \$75
35. **A surveyor may seal a plat not prepared by him:**
- a) if an responsible employee has made the survey
 - b) if a civil engineer in the surveyor's company made the survey
 - c) if a registered contract surveyor made the survey
 - d) None of the above
36. **The statute of limitations for prosecution of violations is:**
- a) two years
 - b) four years
 - c) two years after discovery of the violation
 - d) four years after discovery of the violation
37. **Tennessee registered land surveyors have the right-of-entry:**
- a) for their equipment
 - b) for their vehicles
 - c) for their personnel
 - d) All of the above
38. **Examination fees are established by the:**
- a) board
 - b) TSPS
 - c) Secretary of the State
 - d) Treasurer of the State

39. **Licensing fees are established by the:**
- a) board
 - b) TSPS
 - c) Secretary of the State
 - d) Treasurer of the State
40. **Renewal fees are established by the:**
- a) board
 - b) TSPS
 - c) Secretary of the State
 - d) Treasurer of the State
41. **The following are authorized in Tennessee:**
- a) mortgage loan certificates
 - b) mortgage title inspections
 - c) improvement loan certificates
 - d) All of the above
42. **The current state plane coordinate system in Tennessee is:**
- a) North American Datum of 1927
 - b) North American Datum of 1983
 - c) North American Datum of 1993
 - d) North American Datum of 2001
43. **The current state plane coordinate system has:**
- a) 1 zone
 - b) 2 zones
 - c) 3 zones
 - d) 4 zones
44. **The current state plane coordinate system uses:**
- a) a Lambert conformal conic projection
 - b) a Universal Transverse Mercator projection
 - c) two Lambert conformal conic projections
 - d) two Universal Transverse Mercator projections
45. **The standard parallel at which the scale is exact is:**
- a) 35 degrees north
 - b) 35 degrees 15 minutes north and 36 degrees 25 minutes north
 - c) 35 degrees and 37 degrees north
 - d) 36 degrees north
46. **The origin of the Tennessee state plane coordinate system is in:**
- a) Tennessee
 - b) Kentucky
 - c) Alabama
 - d) Mississippi

47. **The value of the origin of the Tennessee state plane coordinate systems is:**

- a) easting = 0 and northing = 500,000 meters
- b) easting = 600,000 meters and northing = 0 meters
- c) easting = 500,000 feet and northing = 2,000,000 feet
- d) None of the above

48. **The latitude and longitude of the origin is:**

- a) 35 degrees north and 86 degrees north
- b) 36 degrees north and 85 degrees north
- c) 34 degrees 40 minutes north and 86 degrees west
- d) 34 degrees north and 89 degrees west

49. **No coordinate shall be shown on a plat unless:**

- a) it is within 5 kilometers of a horizontal control monument
- b) it is within 10 kilometers of a horizontal control monument
- c) it is within 25 kilometers of a horizontal control monument
- d) it is within 40 kilometers of a horizontal control monument

50. **All legal descriptions shall contain coordinates after:**

- a) 1990
- b) 1992
- c) 1994
- d) None of the above

51. **Any property description using NAD 83 coordinates will be located by:**

- a) GPS
- b) total station
- c) second order survey
- d) Any of the above

52. **A mechanics' and material men's lien shall secure:**

- a) the value of the house
- b) 10% of the value of the land
- c) the agree contract price
- d) None of the above

53. **To file a lien, your client must be the landowner was established in:**

- a) Truxall v. Williams 83 TN 427 1885
- b) Jones v. Wallace 92 TN 323 1923
- c) Roberts v. West Realty 95 TN 123 1928
- d) Hanson v. City of Arp 97 TN 433 1929

54. **Fischer Lime & Cement Company v Kaucher established:**

- a) a claimant may rely upon a rental contract to apply a lien
- b) a claimant may rely upon the record of ownership to show ownership
- c) a claimant may rely upon witnesses to show ownership
- d) None of the above

55. **Bell Brothers & Company v Arnold established that:**
- a) a husband and wife cannot separate their joint interest to resolve a lien
 - b) the use of materials is immaterial
 - c) the lien is not affected by subsequent mortgages
 - d) a lien is not binding on a life estate
56. **Ensuring that recorded plat have a surveyor seal is the responsibility:**
- a) of the county clerk
 - b) of the county judge
 - c) of the county zoning commission
 - d) of the county recorder of deeds
57. **A plat may be refused to be recorded if:**
- a) not approved by the Audubon Society
 - b) not approved by Ducks Unlimited
 - c) there is insufficient clarity for reduction
 - d) None of the above
58. **The mathematics portion of the exam may include:**
- a) algebra
 - b) calculus
 - c) differential equations
 - d) topology
59. **The fundamental of surveying portion of the exam may include:**
- a) traffic engineering
 - b) astronomic observations for azimuth
 - c) geographic information system analysis
 - d) None of the above
60. **The cost of the application fee is:**
- a) \$50
 - b) \$100
 - c) \$120
 - d) \$150
61. **The cost of the examination fee is:**
- a) \$50
 - b) \$100
 - c) \$120
 - d) \$150
62. **The cost of the certificate of registration fee is:**
- a) \$50
 - b) \$100
 - c) \$120
 - d) \$150

63. **The cost of the annual renewal fee is:**
- a) \$50
 - b) \$100
 - c) \$120
 - d) \$150
64. **The civil penalty for violation of a board order is:**
- a) \$100-\$1000
 - b) \$250-\$1000
 - c) \$500-\$2000
 - d) \$500-\$2500
65. **To perform a land survey more accurate than the Standards of Practice:**
- a) he must have the permission of the zoning commission
 - b) he must have the permission of the board
 - c) he must have the permission of the client
 - d) he needs no permission.
66. **Suburban land survey means a survey within:**
- a) Class B zoning
 - b) five miles of any municipality
 - c) Class III ALTA Survey
 - d) the limits of a city or town
67. **For a four-sided sided, Category II survey, maximum angular closure is:**
- a) 50 seconds
 - b) 60 seconds
 - c) 90 seconds
 - d) 100 seconds
68. **A four-mile leveling loop for a commercial property shall not exceed:**
- a) 0.04 feet
 - b) 0.08 feet
 - c) 0.12 feet
 - d) 0.14 feet
69. **All metal corners shall be minimum:**
- a) 1/2 inch diameter and 18 inches long
 - b) 3/4 inch diameter and 18 inches long
 - c) 1/2 inch diameter and 24 inches long
 - d) 3/4 inch diameter and 24 inches long
70. **All concrete corners shall be minimum:**
- a) 3 inches diameter and 18 inches long
 - b) 4 inches diameter and 18 inches long
 - c) 3 inches diameter and 24 inches long
 - d) 4 inches diameter and 24 inches long

71. **The minimum standards include:**
- a) General Property Surveys
 - b) GPS surveys
 - c) Topographic surveys
 - d) All of the above
72. **Non-radial or non-tangential lines to a curve should include:**
- a) radius, arc, and delta angle
 - b) radius, tangent, and delta angle
 - c) radius, delta angle, and chord bearing and distance
 - d) None of the above
73. **What is not included in a general property survey?**
- a) North arrow
 - b) Centerline elevations in front of the property
 - c) The surveyor's name
 - d) A graphic scale
74. **For topographic mapping:**
- a) 80% of the contours shall be accurate to 1/2 the contour interval
 - b) 80% of the contours shall be accurate to one contour interval
 - c) 90% of the contours shall be accurate to 1/2 the contour interval
 - d) 90% of the contours shall be accurate to one contour interval
75. **All GPS surveys must be made in accordance with:**
- a) the Federal Geodetic Control Standards
 - b) the National Geodetic Survey First Order control
 - c) the Tennessee DOT HARN
 - d) Any of the above
76. **The land surveying registrant's primary obligation is to:**
- a) his client
 - b) his employer
 - c) the public
 - d) his survey crew
77. **Public statements that should be truthful and objective include:**
- a) expert witness testimony
 - b) reports
 - c) recommendations for former employees
 - d) All of the above
78. **One CEU is equal to:**
- a) 1 PDH
 - b) 0.1 PDH
 - c) 15 PDH
 - d) 10 PDH

79. One semester hour of acceptable university credit is equal to:

- a) 8 PDH
- b) 10 PDH
- c) 15 PDH
- d) 30 PDH

80. The current annual requirements for PDH's is:

- a) 8 PDH
- b) 15 PDH
- c) 30 PDH
- d) 45 PDH

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I hereby certify that I studied the course materials, and the above answers are my own. No other person has helped me to complete this exam.

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