Tennessee FFA Association

Forestry Handbook

2017-2021
**Purpose**

The Tennessee FFA Forestry Career Development Event is designed to stimulate student interest and to promote the forestry industry as a career choice. It also provides recognition for those who have demonstrated skills and competencies as a result of forestry instruction in the agriculture education classroom.

**Objectives**

This event will provide the participant the ability to:

- understand and use forestry terms.
- promote an understanding of the economic impact of the forest environment and the forest industry to the American economy.
- recognize sustainability (multiple use) opportunities in the forests.
- recognize environmental and social factors affecting the management of forests.
- identify major species of trees of economic importance to the United States and internationally.
- identify and properly use hand tools, equipment in forestry management.
- recognize and understand approved silvicultural practices in the United States.
- identify forest disorders.
- take a forest inventory.
- utilize marketing management strategies.
- recognize safety practices in forest management.
Event Rules

- The team will consist of four individuals. All four scores will count toward the team score.
- The team score is comprised of the combined scores of each individual and the team activity in which all team members will participate.
- Participants must come to the event prepared to work in adverse weather conditions. The event will be conducted regardless of weather. Participants should have rain gear, warm clothes and closed toed shoes. A hard hat and safety glasses are no longer required to bring to the CDE unless indicated by Forestry CDE coordinators in advance.
- The CDE Superintendent retains the right to alter or eliminate certain aspects of the event due to time, equipment, or material constraints.
- Official FFA Dress is NOT recommended for this CDE.
- Students are required to bring their own pencils, a nonprogrammable calculator and a transparent, clear clipboard with no notes attached.
- All other equipment will be furnished for the event. Participants must use the tools and equipment provided.
- Participants must follow instructions from event staff for handling materials during the event. Any infraction of this rule will be sufficient to eliminate the team from the event.
- Observers will not be permitted in the event area while the event is in progress.
- No team, team member or team coach shall visit the event facilities to observe plant materials and facilities within one week of the competition. Any team, team member or coach reported and proven to do so will cause the elimination of the team from the Tennessee FFA Forestry CDE.
- Participants will be assigned to group leaders who will escort them to various event-staging sites. Each participant is to stay with his/her assigned group leader throughout the event or until told to change leaders by the event superintendent.
- All participants will be given an identification number by which they will be designated throughout the event.
- All written materials will be furnished for the event. No written materials such as tests, problems and worksheets shall be removed from the event site.
- Any participant in possession of an electronic device in the event area is subject to disqualification.
EVENT FORMAT

INDIVIDUAL ACTIVITIES

GENERAL KNOWLEDGE EXAM (100 POINTS)

- Fifty multiple-choice questions will be selected from areas of the forestry industry reflected in the event objectives. The test will come from the previous five years National FFA Forestry General Knowledge Exam found on ffa.org. A test bank of the previous five years National FFA Forestry exams will be maintained and updated annually by FFA State Staff on tnffa.org under the Downloads Tab. This phase of the event will test the participant’s knowledge and understanding of basic principles of forestry.
- Each participant will be allowed 45 minutes to complete this phase of the event.

TREE IDENTIFICATION (100 POINTS)

- Twenty live specimens, pressed samples, fresh leaf samples and/or standing trees, from the tree identification specimen list will be displayed for participants to identify by common names. A number will designate each specimen.
- Each participant will be allowed 30 minutes to complete this phase.

TREE MEASUREMENT - TIMBER CRUISING FOR BOARD VOLUME (100 POINTS)

- Each participant will measure ten pre-numbered trees on a plot for board foot volume. The participant must record the DBH (Diameter Breast Height) to the nearest two-inch class and the merchantable height of each tree height rounded down to the nearest ½ log.
- Volume tables will be provided at the event.
- The following minimum diameters and log length will be:

<table>
<thead>
<tr>
<th>Minimum Saw Timber</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBH</td>
</tr>
<tr>
<td>10 inches</td>
</tr>
<tr>
<td>Top Diameter</td>
</tr>
<tr>
<td>10 inches DIB</td>
</tr>
<tr>
<td>Height</td>
</tr>
<tr>
<td>16 feet</td>
</tr>
</tbody>
</table>

- Merchantable height stops are estimated to the upper point on a tree where it becomes 10 inches in diameter or where a major fork in a tree stem occurs or where a limb has a diameter equal to ¼ of the diameter of the tree at that point.
- Each participant will be allowed 30 minutes to complete this phase.
Thirty points will be given for the correct DBH and thirty points for the correct height. Forty points will be given for the correct volume per acre. Five points will be deducted for each five percent deviation (plus or minus) from the correct measured volume.

INDIVIDUAL PRACTICUMS (100 POINTS EACH) FOR TOTAL OF 500 POINTS PER INDIVIDUAL

Participants will compete individually in all practicums from the following list (or as directed by the CDE Superintendent):

- Equipment Identification
- Map Interpretation
- Compass
- Chainsaw Part Identification, Troubleshooting and Safety
- Tree/Forest Disorder

Each participant will have 30 minutes to complete each practicum.

EQUIPMENT IDENTIFICATION PRACTICUM

Twenty-five pieces of equipment from the equipment identification list will be displayed for participants to identify by technical names. Each piece of equipment will be designated by number.

The equipment will be presented in one or more of the following forms:

- Actual samples
- Pictures or slides
- Written description

MAP INTERPRETATION PRACTICUM

Participants will answer questions using a furnished United States Geological Survey topographic map. The participant should know legal description, recognize topographic map symbols, and understand the meaning of map symbols, size and location of 40 acres or more in a parcel.

Examples:

- What is the legal description of the boxed area?
- What is the item located at this point?
• What is the acreage of the area enclosed?
• In what section is the city of Marshall located?
• What is the elevation at this point?

Legal descriptions will be written or described according to the public land survey system.
• Example: SE ¼ of NW ¼ of Section 3, T3N, R1E

COMPASS PRACTICUM

The participant will use a hand compass and pacing to the nearest full foot to simulate the determination of the property lines on a tract of timber. The participant will start at any point and record the compass reading and distance to the next point. Azimuth readings shall be recorded. Participants will record data for 10 points.

Partial credit will be given with a deduction of one point for each two degrees or two feet the participant is off the correct answer.

CHAINSAW PART IDENTIFICATION, TROUBLESHOOTING AND SAFETY PRACTICUM

This practicum will consist of one or more of the parts below. Parts may utilize photos, video, demonstration, actual parts, written situations and/or problems. This is not an inclusive list. The CDE Superintendent(s) will identify the brand of chainsaw 2 weeks prior to the State CDE date.

• Chainsaw parts identification: Each participant will identify parts of a chainsaw. (Does not include internal engine components)
• Troubleshooting: The participant will identify chainsaw problems or troubles.
• Safety: The participant will identify safety hazards, unsafe practices and/or proper safety equipment.

TREE/FOREST DISORDERS PRACTICUM

Symptoms of at least 10, but not more than 20 disorders from the Tree Disorders Identification list will be displayed for participants to identify by common names. The symptoms will be presented in one or more of the following forms:

• Actual sample
• Pictures/slides
• Written description
• Written case history
A number will designate each set of symptoms representing a disorder.

**FOREST INDUSTRY SCENARIO TEAM ACTIVITY (100 POINTS)**

Each team will be provided with a forest industry scenario. The scenario will utilize components from the individual forestry CDE practicums. Teams must work together using forestry skills and tools to complete the team activity. Ninety minutes will be allowed to plan and complete the activity. All supplies and materials needed to complete the task will be provided.

**Scoring**

<table>
<thead>
<tr>
<th>ACTIVITIES</th>
<th>Individual Points</th>
<th>Team Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Knowledge Exam</td>
<td>100</td>
<td>400</td>
</tr>
<tr>
<td>Tree Identification</td>
<td>100</td>
<td>400</td>
</tr>
<tr>
<td>Tree Measurements-Timber Cruising</td>
<td>100</td>
<td>400</td>
</tr>
<tr>
<td>Individual Practicums (5)</td>
<td>500</td>
<td>2,000</td>
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<tr>
<td>Forest Industry Scenario Team Activity</td>
<td>100</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>800</strong></td>
<td><strong>3,300</strong></td>
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</tbody>
</table>

**TIEBREAKERS**

**TEAM**

Tiebreakers for teams will be determined by adding together the individual ranking of team members. The team with the lowest score will earn the tiebreak.

**INDIVIDUALS**

1. Knowledge exam
2. Timber cruising
3. Tree identification
4. Total rotational practicum score.
References

*This list of references is not intended to be all inclusive.*

Other sources may be utilized, and teachers are encouraged to make use of the very best instructional materials available. Make sure to use discretion when selecting website references by only using reputable, proven sites. The following list contains references that may prove helpful during event preparation. The most current edition of resources will be used.

Past CDE materials and other resources are available by logging in to [FFA.org](http://www.ffafoundation.org).

**GENERAL KNOWLEDGE EXAM**

- Previous five years National Forestry General Knowledge Exams located on ffa.org. A test bank of the previous five years national exams will be maintained and updated annually on tnffa.org.

**TREE IDENTIFICATION**

- “FFA Georgia State and National Tree Lists”, available from [www.amazon.com](http://www.amazon.com)
- Silvics of North America, Handbook #654, volume one and two, U.S. Forest Service, P. O. Box 2417, 12th and Independence Avenue SW, Washington, DC 20013.

**TREE MEASUREMENT**


**FOREST MANAGEMENT**

- Introduction to Forestry Science, Burton, Delmar Publications
- Science of Forestry Management, Kris Irwin, University of Georgia, AAVIM
EQUIPMENT IDENTIFICATION (THIS IS NOT AN INCLUSIVE LIST):

- Current Catalog of Forestry Suppliers, Inc., 205 West Rankin Street, Jackson, MS 39204-039
- www.husqvarna.com/us/forest/accessories/chainsaw-accessories/#forests_tools
- www.deere.com/en_US/industry/forestry/forestry.page?
- www.treestuff.com

MAP INTERPRETATION

- The U.S. Department of Interior Geological Survey Topographic Map Information and Symbols Key, Map Distribution, U. S. Geological Survey, Box 25286, Federal Center, Denver CO

COMPASS

- http://forest.mtu.edu/classes/fw2051/docs/compass_pace.pdf

CHAINSAW PARTS AND IDENTIFICATION (THIS IS NOT AN INCLUSIVE LIST)

- Husqvarna publication, How to Work With a Chainsaw, National FFA website
- Various brand chainsaw manuals

FOREST PRODUCTS

- www.fpl.fs.fed.us/products/publications/several_pubs.php?grouping_id=100&header_id=p
Tree Identification Specimen List

1. Alder, Red (Alnus rubra)
2. Ash (Fraxinus sp.)
3. Aspen, Bigtooth (Populus grandidentata)
4. Aspen, Quaking (Populus tremuloides)
5. Baldcypress (Taxodium distichum)
6. Beech, American (Fagus americana)
7. Birch, Black (Betula lenta)
8. Birch, White (Betula papyrifera)
9. Cherry, Black (Prunus serotina)
10. Cottonwood, Eastern (Populus deltoides)
11. Elm (Ulmus sp.)
12. Fir, Balsam (Abies balsamea)
13. Fir, Douglas (Pseudotsuga menziesii)
14. Hemlock, Eastern (Tsuga canadensis)
15. Hemlock, Western (Tsuga heterophylla)
16. Hickory (Carya sp.)
17. Maple, Red (Acer rubrum)
18. Maple, Sugar (Acer saccharum)
19. Oak, Black (Quercus velutina)
20. Oak, Chestnut (Quercus Montana)
21. Oak, Northern Red (Quercus rubra)
22. Oak, Scarlet (Quercus coccinea)
23. Oak, Southern Red (Quercus falcata)
24. Oak, White (Quercus alba)
25. Pecan (Carya illinoisensis)
26. Pine, Eastern White (Pinus strobus)
27. Pine, Loblolly (Pinus taeda)
28. Pine, Lodgepole (Pinus contorta)
29. Pine, Longleaf (Pinus palustris)
30. Pine, Pitch (Pinus rigida)
31. Pine, Ponderosa (Pinus ponderosa)
32. Pine, Red (Pinus resinosa)
33. Pine, Shortleaf (Pinus echinata)
34. Poplar, Yellow (Liriodendron tulipifera)
35. Red Cedar, Western (Thuja plicata)
36. Redcedar, Eastern (Juniperus virginiana)
37. Spruce, Red (Picea rubens)
38. Spruce, Sitka (Picea sitchensis)
39. Spruce, White (Picea glauca)
40. Sweetgum (Liquidambar styraciflua)
41. Sycamore (Platanus sp.)
42. Walnut, Black (Juglans nigra)
## Equipment Identification List

1. Altimeter
2. Angle gauge
3. Ascender
4. Automatic Level
5. Back-pack Fire Pump
6. Bark Gauge
7. Bulldozer
8. Canthook
9. Carabiner
10. Chainsaw
11. Chainsaw Chaps
12. Clinometer
13. Combination tool
14. Data Recorder
15. Densiometer
16. Diameter Tape
17. Dot Grid
18. Drip Torch
19. Ear Protection
20. Endloader
21. Feller Buncher
22. Felling Wedge
23. Fiberglass Measuring Tape
24. Fire Rake
25. Fire shelter
26. Fire Weather Kit
27. Fire-Swatter
28. First aid kit
29. Flow/current Meter
30. GPS Receiver
31. Hand Compass
32. Hand Lens/Field Microscope
33. Hip Chain
34. Hypo-Hatchet
35. Increment Borer
36. Jacob Staff
37. Log Rule
38. Logger's Tape
39. Maul
40. Peavy
41. pH Meter
42. Planimeter
43. Plant Press
44. Plastic Flagging
45. Pole saw
46. Pruning Saw
47. Pulaski Axe
48. Relaskop
49. Safety Glasses
50. Safety Hard Hat
51. Scale Stick
52. Secchi Disc
53. Soil Sampler
54. Soil Test Kit
55. Staff Compass
56. Stereoscope
57. Tally Book
58. Tally Meter
59. Timber Tongs
60. Tree Caliper
61. Tree Harvester
62. Tree Marking Gun
63. Tree Planting Hoe or Bar
64. Tree Skidder
65. Water Sampler
66. Water Test Kit
67. Wedge Prism
Tree Disorders Identification List

1. Aphid
2. Asian Longhorn Beetle
3. Butt or Heart Rot
4. Canker
5. Chemical damage
6. Cicada
7. Climatic injury: snow, wind, frost, drought, hail
8. Damping off
9. Douglas fir tussock moth
10. Emerald ash borer
11. Fir Engraver Beetle
12. Fire damage
13. Gypsy moth
14. Hemlock woolly adelgid
15. Ipps Engraver Beetle
16. Landscape equipment damage
17. Lightning damage
18. Mechanical damage
19. Mistletoe
20. Mountain Pine Beetle
21. Nematode
22. Rust
23. Sawfly
24. Scale
25. Spruce budworm
26. Sunscald
27. Tent caterpillar
28. Wetwood or slime flux
29. Wildlife/Livestock damage
## Doyle Log Rule

**Form Class 80**

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<th>DBH Inches</th>
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</table>
### Bd Ft Volume Estimation Worksheet

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<tr>
<th>Tree Number</th>
<th>DBH</th>
<th>Number of Logs</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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</table>

TOTAL VOLUME

Remember to record the DBH, Number of Logs and Total Volume on your Scantron sheet.
### Team Issues Preparation Rubric

**50 points**

<table>
<thead>
<tr>
<th>INDICATOR</th>
<th>Very strong evidence of skill is present 5–4 points</th>
<th>Moderate evidence of skill is present 3–2 points</th>
<th>Weak evidence of skill is present 1–0 points</th>
<th>Points Earned</th>
<th>Weight</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective listening</td>
<td>Clearly evident that all team members are listening.</td>
<td>Listening occurs but distraction is evident.</td>
<td>Not listening to each other and/or talking over each other.</td>
<td></td>
<td>X 2</td>
<td></td>
</tr>
<tr>
<td>Oral communication</td>
<td>Clearly evident that all team members are discussing the topic.</td>
<td>Communication occurs but side conversations are occurring or two to three members dominating.</td>
<td>One member dominating conversation.</td>
<td></td>
<td>X2</td>
<td></td>
</tr>
<tr>
<td>Demonstrated cooperation</td>
<td>Clearly evident all team members completing tasks, sharing written and oral solutions.</td>
<td>Tasks primarily completed by two to three members, other members assist occasionally.</td>
<td>Tasks primarily completed by one member, other members contributing only slightly.</td>
<td></td>
<td>X2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clearly evident all team members respected the input of other team members.</td>
<td>Most team members respected the input of other team members.</td>
<td>The team members did not respect the input of other team members.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Participated in the team preparation</td>
<td>Clearly evident all team members are engaged, attentive, and making notes for the full term of event.</td>
<td>Members are engaged and attentive with two to three making notes, participation fades over time.</td>
<td>One to two members form the primary team, other members participate occasionally early, fade over time.</td>
<td></td>
<td>X2</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL**
# Team Issues Presentation Scoring Rubric

## 50 points

<table>
<thead>
<tr>
<th>INDICATOR</th>
<th>5 points</th>
<th>4 points</th>
<th>3 points</th>
<th>2 points</th>
<th>1 point</th>
<th>Points Earned</th>
<th>Weight</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introduction (10 points)</strong></td>
<td>Introduction is clear, well organized and focused; clearly prepares listener for what is to come.</td>
<td>Topic indicated clearly; organized; focused.</td>
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<td>Introduction gives some indication of topic; poorly organized.</td>
<td>No introduction; extremely brief, non-specific, not related to the topic; disorganized.</td>
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</tr>
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<td><strong>Poise/ posture (10 points)</strong></td>
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<td>Has good eye contact; voice quality is good; posture somewhat rigid.</td>
<td>Breaks eye contact; looks away occasionally; voice quality uneven; poor posture.</td>
<td>Seldom makes eye contact; voice quality uneven; distracting gestures.</td>
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<td>Responds with little wait time; uses complete statements most of the time; most answers based on facts; presents information in a somewhat logical order.</td>
<td>Hesitates before answering; speaks in phrases rather than complete statements; repeats information; opinions lack factual basis; random thoughts.</td>
<td>Few facts and basic information; often uses one word answers; many pauses; long response time; no structure to response.</td>
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<td><strong>Knowledge of issue (00 points)</strong></td>
<td>Extremely well informed; clearly differentiates between fact and opinion; aware of current issues.</td>
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<td>Lacks knowledge; more opinion than fact; talks in circles; avoids the issue; seemingly unaware of current issues.</td>
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<td><strong>Conveyance of thought and meaning (10 points)</strong></td>
<td>Communicates opinion as a clear statement; uses appropriate terminology; backs up</td>
<td>Makes fairly clear statements using appropriate language; is able to back up most</td>
<td>Sounds somewhat rehearsed; difficulty backing up statements; draws blanks; often uses filler words (“ah”),</td>
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</tbody>
</table>

**TOTAL POINTS**
# Team Issues Presentation Scoring Rubric

50 points

<table>
<thead>
<tr>
<th>INDICATOR</th>
<th>5 points</th>
<th>4 points</th>
<th>3 points</th>
<th>2 points</th>
<th>1 point</th>
<th>Points Earned</th>
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**TOTAL POINTS**