

## **FORESTRY CDE THIS IS A 2-DAY EVENT**

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Specific contest activities for the Pennsylvania State Forestry CDE are adapted from the following National FFA CDE Handbook rules:

Entries. Chapters may enter individuals and/or a 3 or 4 member team. In the case of a 4-member team, the highest three scores will be added to determine the team score.

Purpose. To stimulate interest and to promote forestry instruction in the agriculture education curriculum as well as to provide recognition for those who have demonstrated skills and competencies as a result of forestry instruction.

Goal. The contestant will have the ability to develop a forest and wood product management and marketing plan.

### Objectives

1. To understand and use forestry terms.
2. To recognize the economic importance and agencies responsible for forest management in the United States.
3. To recognize environmental factors of forestry in the United States.
4. To identify major trees of economic importance in the United States.
5. To identify hand tools, equipment and their uses in the forest industry.
6. To recognize and understand approved silvicultural practices in the United States.
7. To identify forest disorders (fire, insect and disease).
8. To take forest inventory.
9. To recognize safety practices in forest management.

### CDE Format

As per National Forestry CDE rules, team members will compete individually in each of the following four phases and three practicums: (Note: there is an apparent misprint in the National CDE Handbook which causes the Phases to be improperly numbered. Identify Phases by title, rather than by Roman numeral. Roman numerals used below are those assumed to be the intent of the National Forestry CDE committee)

- Phase I. General Knowledge and Concepts Exam (100 points)
- Phase II. Forestry Issues TEST (100 points)
- Phase III. Tree Identification (150 points)
- Phase IV. Equipment Identification (75 points)
- Phase V. Forestry Applications\* (2 practicums@100 points each=200 points)
- Phase VI. Team Activity\* (250 points)

\* Forestry Applications Practicums and Team Activities will vary from year to year.

NOTE: Some phases may be shortened or eliminated from the State contest from year to year dependent upon the amount of assistance available during the contest.

### Phase I. General Knowledge/Management (100 points)

Fifty (50) objective type multiple choice questions will be selected from areas of forestry industry reflected in the contest objectives. This phase of the contest will test the contestant's knowledge and understanding of basic principles of forestry.

**Time:** Each contestant will be allowed 50 minutes to complete this phase of the contest.

**Scoring:** Each answer has a value of 2 points for a total maximum score of 100 points. Contestants will mark the appropriate answer on the answer sheet provided.

### Phase II. Forestry Issues Interview (100 points)

A written test will be given in place of the interview.

**Time:** Each contestant will be allowed 10 minutes to complete this phase of the contest.

<b>Scoring:</b>	Introduction	5
	Personality/confidence	10
	Poise/body posture	10
	Response to questions	15
	Knowledge of the issue	20
	Conveyance of thought and meaning	<u>40</u>
		100

### Phase III. Tree Identification (150 points)

Thirty (30) specimens from the attached list will be displayed for contestants to identify by common names. Each specimen will be designated by a number.

**Time:** Each contestant will be allowed 30 minutes to complete this phase or approximately 2 minutes for each specimen station.

**Scoring:** Five points will be given for each specimen that is correctly identified for a total maximum of 150 points.

### Phase IV. Equipment Identification (75 points)

Fifteen (15) pieces of equipment from the attached list will be displayed for contestants to identify by technical names. Each piece of equipment will be designated by a number.

**Time:** Each contestant will be allowed 30 minutes to complete this phase, or approximately 2 minutes for each equipment station.

**Scoring:** Five (5) points will be given for each piece of equipment identified correctly for a total of 75 points. All answers must be correct. No partial credit will be given.

### Phase V. Forestry Applications (2 practicums@100 points each)

Follows guidelines set forth in the National CDE Handbook.

### Phase VI. Team Activity (250 points)

Follows guidelines set forth in the National CDE Handbook.

### Equipment Identification List

#	Specimen	#	Specimen
1.	Tree Stick	25.	Canthook
2.	Diameter Tape	26.	Chainsaw
3.	Increment Borer	27.	Safety Hard hat
4.	Bark Gauge	28.	Chainsaw Chaps
5.	Tree Caliper	29.	Safety Glasses
6.	Pulaski-Forester Axe	30.	Altimeter
7.	Stereoscope	31.	Tally Meter
8.	GPS Receiver	32.	Fiberglass Measuring Tape
9.	Soil Sampler	33.	Fire Rake
10.	Wheel Caliper	34.	Drip Torch
11.	Wedge Prism	35.	Data Recorder
12.	Relaskop	36.	Fire Weather Kit
13.	Staff Compass	37.	Tally Book
14.	Hand Compass	38.	Fire-Swatter
15.	Tree Planting Hoe or Bar	39.	Dot Grid
16.	Log Rule	40.	Back-pack Fire Pump
17.	Planimeter	41.	Plant Press
18.	Survey Instrument (some type)	42.	Flow/current Meter
19.	Hip Chain	43.	Soil Test Kit
20.	Plastic Flagging	44.	Water Sampling
21.	Tree Marketing Gun	45.	Densimeter
22.	Logger's Tape	46.	Water Test Kit
23.	Clinometer	47.	pH Meter
24.	Hypo-Hatchet	48.	Hand Lens/Field Microscope

### Tree Identification Specimen List

#	Name	#	Name
1.	Ailanthus (Tree of Heaven)	38.	Maple, ash-leaved (boxelder)
2.	Arrow-wood	39.	Maple, Norway
3.	Ash, white	40.	Maple, red
4.	Aspen, big-toothed	41.	Maple, sugar
5.	Aspen, quaking	42.	Mountain Laurel
6.	Autumn-olive	43.	Oak, black
7.	Barberry	44.	Oak, chestnut (rock)
8.	Basswood (linden, linn)	45.	Oak, pin
9.	Beech, American	46.	Oak, red
10.	Birch, black (sweet)	47.	Oak, scarlet
11.	Birch, gray	48.	Oak, white
12.	Birch, red (river)	49.	Osage Orange
13.	Birch, yellow	50.	Pine, Austrian
14.	Butternut	51.	Pine, pitch
15.	Catalpa	52.	Pine, red
16.	Cherry, black	53.	Pine, scotch
17.	Chestnut, American	54.	Pine, Virginia (scrub)
18.	Crab Apple	55.	Pine, white
19.	Cucumber	56.	Poison Ivy
20.	Dogwood, flowering	57.	Red Bud
21.	Douglas Fir	58.	Red cedar
22.	Elderberry	59.	Rhododendron
23.	Elm, American	60.	Sassafras
24.	Elm, slippery (red)	61.	Serviceberry
25.	Green Briar	62.	Smooth Alder
26.	Gum, black (tupelo)	63.	Spicebush
27.	Hackberry	64.	Spruce, Norway
28.	Hawthorn	65.	Staghorn Sumac
29.	Hemlock, Eastern	66.	Sweetgum
30.	Hickory, pignut	67.	Sycamore (plane tree)
31.	Hickory, shagbark	68.	Tulip poplar (yellow poplar)
32.	Hickory, shellbark	69.	Virginia Creeper
33.	Horsechestnut	70.	Walnut, black
34.	Ironwood	71.	White Cedar
35.	Larch, Japanese	72.	Wild Grape
36.	Locust, black	73.	Willow, black
37.	Locust, honey	74.	Witch Hazel

Score: \_\_\_\_\_

**FORESTRY CDE**

Timber Stand Improvement (T.S.I)  
Answer Sheet

Contestant Name \_\_\_\_\_ Contestant No. \_\_\_\_\_

School \_\_\_\_\_

Circle one choice for each of the trees marked within the test area:

- 1. CUT LEAVE DEADEN
- 2. CUT LEAVE DEADEN
- 3. CUT LEAVE DEADEN
- 4. CUT LEAVE DEADEN
- 5. CUT LEAVE DEADEN
- 6. CUT LEAVE DEADEN
- 7. CUT LEAVE DEADEN
- 8. CUT LEAVE DEADEN
- 9. CUT LEAVE DEADEN
- 10. CUT LEAVE DEADEN
- 11. CUT LEAVE DEADEN
- 12. CUT LEAVE DEADEN
- 13. CUT LEAVE DEADEN
- 14. CUT LEAVE DEADEN
- 15. CUT LEAVE DEADEN
- 16. CUT LEAVE DEADEN
- 17. CUT LEAVE DEADEN
- 18. CUT LEAVE DEADEN
- 19. CUT LEAVE DEADEN
- 20. CUT LEAVE DEADEN
- 21. CUT LEAVE DEADEN
- 22. CUT LEAVE DEADEN
- 23. CUT LEAVE DEADEN
- 24. CUT LEAVE DEADEN
- 25. CUT LEAVE DEADEN
- 26. CUT LEAVE DEADEN
- 27. CUT LEAVE DEADEN
- 28. CUT LEAVE DEADEN
- 29. CUT LEAVE DEADEN
- 30. CUT LEAVE DEADEN

TOTAL POSSIBLE SCORE \_\_\_\_\_

Score: \_\_\_\_\_

**FORESTRY CDE**

Compass Practicum  
Answer Sheet

Contestant Name: \_\_\_\_\_ Contestant No.: \_\_\_\_\_

School: \_\_\_\_\_

Site 1	A to B	Bearing	5 pts	_____
		Distance	5 pts	_____
Site 2	B to C	Bearing	5 pts	_____
		Distance	5 pts	_____
Site 3	C to D	Bearing	5 pts	_____
		Distance	5 pts	_____
Site 4	D to E	Bearing	5 pts	_____
		Distance	5 pts	_____
Site 5	E to F	Bearing	5 pts	_____
		Distance	5 pts	_____
Site 6	F to G	Bearing	5 pts	_____
		Distance	5 pts	_____
Site 7	G to H	Bearing	5 pts	_____
		Distance	5 pts	_____
Site 8	H to I	Bearing	5 pts	_____
		Distance	5 pts	_____
Site 9	I to J	Bearing	5 pts	_____
		Distance	5 pts	_____
Site 10	J to K	Bearing	5 pts	_____
		Distance	5 pts	_____
Site 11	K to L	Bearing	5 pts	_____
		Distance	5 pts	_____