

SR. FORESTRY CDE COMPASS PRACTICUM

AREA 2

Name Forestry CDE Training
 School Key

Team # _____ Member ID _____

- 1 Azimuth Bearing 264°
RED Distance 51'
- 2 Azimuth Bearing 9°
PURPLE Distance 72'
- 3 Azimuth Bearing 308°
GREEN Distance 79'
- 4 Azimuth Bearing 246°
PINK Distance 62'
- 5 Azimuth Bearing 272°
YELLOW Distance 86'
- 6 Azimuth Bearing 146°
ORANGE Distance 65'
- 7 Azimuth Bearing 231°
WHITE Distance 53'
- 8 Azimuth Bearing 148°
BLUE Distance 78'
- 9 Azimuth Bearing 75°
PINK Distance 49'
- 10 Azimuth Bearing 92°
YELLOW Distance 102'

JUDGE USE ONLY			
Correct Answer	Deduction	TOTAL DEDUCTION	BRG & DIST SCORE
<u>262°-266°</u>	_____	_____	_____
<u>49'-53'</u>	_____	_____	_____
<u>7°-11°</u>	_____	_____	_____
<u>70'-74'</u>	_____	_____	_____
<u>302°-307°</u>	_____	_____	_____
<u>77'-81'</u>	_____	_____	_____
<u>244°-248°</u>	_____	_____	_____
<u>60'-64'</u>	_____	_____	_____
<u>270°-274°</u>	_____	_____	_____
<u>84'-88'</u>	_____	_____	_____
<u>144°-148°</u>	_____	_____	_____
<u>63'-67'</u>	_____	_____	_____
<u>229°-233°</u>	_____	_____	_____
<u>51'-55'</u>	_____	_____	_____
<u>146°-150°</u>	_____	_____	_____
<u>76'-80'</u>	_____	_____	_____
<u>73°-77°</u>	_____	_____	_____
<u>47'-51'</u>	_____	_____	_____
<u>90°-94°</u>	_____	_____	_____
<u>100'-104'</u>	_____	_____	_____
Total Bearing & Distance Score		_____	_____
(Maximum score is 100 pts)			

No more than 5 points may be deducted for each bearing or distance
 (Each bearing & distance carry a value of 10 points for each station)

The contestant may start at any point and record the Azimuth bearing and distance to the ending point.
 Bearings should be expressed using Azimuth Bearing Format, and distances should be expressed to the nearest foot.

ALLOW +/- 2 DEGREE DEVIATION FROM CORRECT BEARING & DISTANCE ANSWER

SR. FORESTRY CDE TREE IDENTIFICATION

AREA 2

Name Forestry CDE Training

Team # _____

Member ID _____

School Key

- | | | |
|-------------------------|-------------------------|------------------------|
| 1. Alder, Red | 15. Hemlock, Western | 29. Pine, Longleaf |
| 2. Ash | 16. Hickory | 30. Pine, Pitch |
| 3. Aspen, Bigtooth | 17. Maple, Red | 31. Pine, Ponderosa |
| 4. Aspen, Quaking | 18. Maple, Sugar | 32. Pine, Red |
| 5. Baldcypress | 19. Oak, Black | 33. Pine, Shortleaf |
| 6. Beech, American | 20. Oak, Chestnut | 34. Poplar, Yellow |
| 7. Birch, Black | 21. Oak, Northern Red | 35. Red Cedar, Western |
| 8. Birch, White | 22. Oak, Scarlet | 36. Redcedar, Eastern |
| 9. Cherry, Black | 23. Oak, Southern Red | 37. Spruce, Red |
| 10. Cottonwood, Eastern | 24. Oak, White | 38. Spruce, Sitka |
| 11. Elm | 25. Pecan | 39. Spruce, White |
| 12. Fir, Balsam | 26. Pine, Eastern White | 40. Sweetgum |
| 13. Fir, Douglas | 27. Pine, Loblolly | 41. Sycamore |
| 14. Hemlock, Eastern | 28. Pine, Lodgepole | 42. Walnut, Black |

1. 30

6. 19

11. 10

16. 35

2. 21

7. 26

12. 17

17. 9

3. 13

8. 14

13. 16

18. 24

4. 37

9. 2

14. 18

19. 6

5. 11

10. 36

15. 20

20. 34

Score _____

SR. FORESTRY CDE TIMBER CRUISING FOR BOARD FOOT VOLUME

AREA 2

Name Key-Forestry CDE Training TEAM # _____

MEMBER ID _____

School Forestry Training Blase Non

Purple Tape

Use the volume table below to determine total volume of trees tagged in this event.

Stump height 6" above ground- Merchantable height 10"top.

VOLUME (BOARD FEET) BY NUMBER OF USABLE 16-FT. LOGS

Doyle Log Rule (Form Class 80)

Tree Dia. Inches	Number of 16-ft. logs									
	1	1½	2	2½	3	3½	4	4½	5	
10	16	20	23	24	26					
<u>11</u>	24	<u>30</u>	35	38	42					
12	31	39	<u>47</u>	52	57	60	62			
<u>13</u>	42	<u>53</u>	64	<u>72</u>	80	84	88			
14	52	67	82	93	104	109	114			
<u>15</u>	64	84	104	<u>118</u>	132	141	150			
<u>16</u>	77	101	125	143	<u>161</u>	174	186			
<u>17</u>	92	122	152	175	<u>198</u>	<u>214</u>	230			
18	108	144	179	206	234	254	273			
19	126	168	210	244	278	301	324			
<u>20</u>	144	193	242	282	<u>321</u>	<u>348</u>	374	396	417	
<u>21</u>	164	221	278	324	<u>370</u>	403	436	462	489	
22	185	250	315	368	420	458	497	529	561	
23	208	282	356	417	478	521	564	604	643	
24	231	314	397	466	536	583	630	678	725	
25	256	350	443	522	600	655	710	764	818	
26	282	386	489	576	663	727	791	852	912	
27	310	425	540	638	735	806	877	946	1015	
28	339	466	592	700	807	885	963	1040	1118	
29	370	509	648	766	884	970	1056	1144	1232	
30	400	552	703	832	961	1055	1149	1248	1346	

Tree	DBH	Pts.	NUMBER of LOGS	Pts.	Vol.
1	21		3		370
2	20		3½		348
3	16		3		161
4	13		2½		72
5	20		3½		348
6	11		1½		30
7	17		3		198
8	13		1½		53
9	12		2		47
10	17		3½		214

40

1,841
Total Volume

3 points for each correct diameter 3 points for each correct height

40 points for correct board ft. volume
Minus 1 pt. for each +/- 1% total volume (5 points/5% deviation)

Scoring Space	
Students Total Volume	_____
Correct Total Volume	_____
Deviation (+ or - %)	_____
Conversion to points (1%=1pt)	_____
40 points minus deduction	_____
Points for diameter	_____ add for total
Points for height	_____ add for total
Total Points	_____

Student Work Space

**SR. FORESTRY CDE
Forest Management Evaluation/
Timber Stand Improvement**

AREA 2

Red FLAGGING TAPE

Name Key (Sr + Sr) Team # _____ Member ID _____

School Brashton-Forestry CDE Training

Participants, please consult the Forest Management Objective of the stand while considering the following:

- Markets Available
- Wildlife Considerations
- Present Condition of Stand
- Management Plan

All trees in the selected area will be considered as a forest management site, and the participants will score each marked tree using one of the following options:

- A. Harvest — utilize the tree.
- B. Leave — the tree should remain in stand for a good reason.
- C. Deaden — Undesirable tree, not merchantable or beneficial to wildlife, should be deadened or cut down and left in woods

Tree Number	A. Harvest B. Leave C. Deaden	
1	A	
2	A	
3	C	
4	A	
5	B	
6	B	
7	A	
8	A	
9	B	
10	A	
11	C	
12	B	
13	B	
14	A	
15	C	
16	B	
17	B	
18	A	
19	A	
20	B	

MANAGEMENT OBJECTIVE:
 Land owner wants immediate
 income from sale of hardwoods
 14 inches DBH or larger,
 smaller trees of desirable species
 left for future growth.
 No market for Sweetgum

Judges Scoring Space:
 # Correct Harvest,
 Leave, or Deaden
 Trees _____ x 5 points = _____

Score _____