**Southern Illinois University**

**Invitational**

# **Forestry Career Development Event**

### A. General Information

1. **Registration**

There will be a two part registration. First, participants must register and pay online at JudgingCard.com. Registration will close at noon the day before the contest. Then participants must complete this form <https://myfuture.siu.edu/register/2021NatForestry> .

2. **Team:**

A team shall consist of five (5) participants. The three (3) individuals earning the highest total scores will constitute the competing team (a school may compete with three members). A school may enter less than three members, but then the member(s) will compete only as individuals. You may register as many extra/practice students as you wish.

3. **Placings/Scoring:**

Official ring placings will be given immediately following completion of the event.

**B. Event Format**

1. General Knowledge (100 points)

Fifty objective-type multiple-choice questions, from the listed references, will be selected from areas of the forestry industry. This phase of the event will test the participant’s knowledge and understanding of basic principles of forestry.

Each participant will be allowed 50 minutes to complete this phase of the event. Each answer has a value of 2 points for a maximum score of 100 points.

2. Tree Identification (100 points)

Twenty-five specimens from the following list will be displayed for participants to identify by common names. Each specimen will be designated by a number. Each participant will be allowed 30 minutes to complete this phase. Six points will be given for each correctly identified specimen for a maximum of 100 points.

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| **Tree Identification 10 to 62**  10 American Basswood  11 American Beech  12 American Hophorn Beam  13 Ash  14 Aspen, Quaking  15 Baldcypress  16 Birch, Paper; Birch, White  17 Birch, River  18 Black Cherry  19 Box Elder  20 Catalpa  21 Cottonwood, Eastern  22 Elm, American; Elm, White  23 Elm, Red; Elm, Slippery  24 Flowering Dogwood  25 Hackberry  26 Hemlock, Eastern  27 Hickory, Bitternut  28 Hickory, Mocknut | 29 Hickory, Pignut  30 Hickory, Shagbark  31 Kentucky Coffetree  32 Locust, Black  33 Locust, Honey  34 Maple, Red  35 Maple, Silver  36 Maple, Sugar  37 Oak, Black  38 Oak, Bur  39 Oak, Chinkapin  40 Oak, Northern Red  41 Oak, Pin  42 Oak, Post  43 Oak, Shingle  44 Oak, White  45 Pecan  46 Persimmon | 47 Pine, Eastern White  48 Pine, Jack  49 Pine, Pitch  50 Pine, Red  51 Pine, Scotch  52 Pine, Virginia  53 Redbud, Eastern  54 Red Cedar, Eastern  55 Sassafras  56 Spruce, Norway  57 Sumac  58 Sweetgum  59 Sycamore, American Planetree  60 Tulip-poplar  61 Walnut, Black  62 Willow, Black |

3. Equipment Identification (100 points)

Twenty pieces of equipment from the following list will be displayed for participants to identify by technical names. Each piece of equipment will be designated by a number. Each participant will be allowed 30 minutes to complete this phase, or approximately 1½ minutes for each equipment station. Five points will be given for each piece of equipment identified correctly for a maximum of 100 points.

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| **Equipment Identification 10 to 45**  10 Abney Level  11 Bark Gauge  12 Chain Saw  13 Chaps  14 Diameter Tape  15 Double bitted axe  16 Drip Torch  17 Ear Protectors  18 Fiberglass measuring tape  19 Fire Rake  20 Forestor's Chain  21 Fusee | 22 GPS Receiver  23 Hand Compass  24 Hand Lens/Field Microscope  25 Hypsometer  26 Increment Borer  27 Jacobs Staff  28 Peavy/canthook  29 Planimeter  30 Plastic flagging  31 Pulaski forester axe  32 Relaskop  33 Safety glasses | 34 Safety hat  35 Single bitted axe  36 Stadia Rod  37 Staff Compass  38 Stereoscope  39 Surveying pins  40 Tally Meter  41 Tree Caliper  42 Tree injector  43 Tree planting hoe or bar  44 Tree scale stick  45 Wedge Prism |

4. Practicums

Participants will compete individually in two practicums.

a. **Map Interpretation**

1) Participants will be furnished a U.S. Geological Survey topographic map with specific points marked for the participant to identify. The participant shall know legal descriptions, recognize topographic map symbols, understand the meaning of map symbols and size, and describe location of 40 acres or more in a section.

2) Ten points on the map will be clearly marked with a number or arrow pointing to a section, symbol, or area on the map to be identified.

3) Examples:

a) What is the legal description of the area boxed?

b) What is the item located at this point?

c) What is the acreage of the area enclosed?

d) In what section is the city of Marshall located?

4) Legal descriptions will be written or described according to the following:

NW – Northwest

T – Township

SE – Southeast

R – Range

S – Section (640 acres)

¼ - Quarter of a section (160 acres) or a quarter of a quarter (40 acres of the 160)

5) Time: Thirty minutes will be allowed for this phase.

6) Scoring: Ten multiple choice questions will be completed. Ten points will be awarded for each correct answer. The maximum possible score for this practicum is 100 points.

b. **Forest Business Management Problem**

1) The participants will be given a *situation* concerning the forest management objectives of the stand selected. Information that will be needed to help participants in their decisions will include:

a) Markets available – including hardwood.

b) Wildlife habitat considerations – scope, etc.

c) Present condition of stand.

d) Final goal of the management plan.

5) Time: Participants will be given 30 minutes to make their decisions.

6) Scoring: Ten multiple choice questions will be completed. Ten points will be awarded for each correct answer. The maximum possible score for this practicum is 100 points.

### C. Suggested References

**Primary**

Holland, I.I., G.L. Rolfe, and D.A. Anderson. *Forests and Forestry,* 4th Ed. Interstate Publishers, Inc., Danville, IL.

Harlow, W.M., E.S. Harrar, J.L. Hardin, and F.M. White. 1991. *Textbook of Dendrology,* 7th Ed. McGraw-Hill, St. Louis, Missouri.

McManar Collins, B. and F.M. White, *Elementary Forestry.* Reston Publishing Co., Reston, VA

U.S. Forest Service, *Silvics of Forests of the United States.* Handbook 271. U.S. Forest Service, Washington, DC.

Haygreen, J.G., and J.L. Bowyer. 1989. *Forest Products and Wood Science,* 2nd Ed. Iowa State University Press, Ames, Iowa.

**Other**

Wenger, K. (ed.). 1984. *Society of American Foresters.* Forestry Handbook. John Wiley & Sons, NY.

Mohlenbrock, R.H. 1983. *Forest Trees of Illinois,* 4th Ed. Illinois Dept. of Conservation.

Society of American Foresters. 1981. *Choices of Silviculture for American Forests.* Bethesda, MD.

Information Technology and Communication Services. *Land Surveys and Descriptions (*U2042). University of Illinois.

*Career Development Events Handbook 2006-2010.* National FFA Organization, P.O. Box 68960, 6060 FFA Drive, Indianapolis, IN.46268-6060.

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