**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 Basswood11 American Beech12 American Hophorn Beam13 Ash14 Aspen, Quaking15 Baldcypress16 Birch, Paper; Birch, White17 Birch, River18 Black Cherry19 Box Elder20 Catalpa21 Cottonwood, Eastern22 Elm, American; Elm, White23 Elm, Red; Elm, Slippery24 Flowering Dogwood25 Hackberry26 Hemlock, Eastern27 Hickory, Bitternut28 Hickory, Mocknut | 29 Hickory, Pignut30 Hickory, Shagbark31 Kentucky Coffetree32 Locust, Black33 Locust, Honey34 Maple, Red35 Maple, Silver36 Maple, Sugar37 Oak, Black38 Oak, Bur39 Oak, Chinkapin40 Oak, Northern Red41 Oak, Pin42 Oak, Post43 Oak, Shingle44 Oak, White45 Pecan46 Persimmon | 47 Pine, Eastern White48 Pine, Jack49 Pine, Pitch50 Pine, Red51 Pine, Scotch52 Pine, Virginia53 Redbud, Eastern54 Red Cedar, Eastern55 Sassafras56 Spruce, Norway57 Sumac58 Sweetgum59 Sycamore, American Planetree60 Tulip-poplar61 Walnut, Black62 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 Level11 Bark Gauge12 Chain Saw13 Chaps14 Diameter Tape15 Double bitted axe16 Drip Torch17 Ear Protectors18 Fiberglass measuring tape19 Fire Rake20 Forestor's Chain21 Fusee | 22 GPS Receiver23 Hand Compass24 Hand Lens/Field Microscope25 Hypsometer26 Increment Borer27 Jacobs Staff28 Peavy/canthook29 Planimeter30 Plastic flagging31 Pulaski forester axe32 Relaskop33 Safety glasses |  34 Safety hat35 Single bitted axe36 Stadia Rod37 Staff Compass38 Stereoscope39 Surveying pins40 Tally Meter41 Tree Caliper42 Tree injector43 Tree planting hoe or bar44 Tree scale stick45 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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