# State FFA Forestry Career Development Event

The State FFA Forestry Career Development Event will be conducted for teams of up to four contestants from each participating chapter of whose scores the top **FOUR** will be counted.  Participants must come prepared to work <u>outside</u> in <u>adverse weather</u> conditions.  They should have **heavy coats**, other warm clothes, **rain gear and footwear**.  Contestants are expected to bring their own pencils.

## EVENT RULES

1.     No team member or team coach shall visit the event facilities to observe plant materials and facilities after May 1.  Any team, team member or coach reported and proven to do so will cause the elimination of that team from competing in the State Forestry Career Development event.

2.     **Tools and Equipment:** All tools and equipment will be furnished for the event.  Participants must use the tools and equipment furnished at the event site.

3.     **Written Materials:** 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.

## PHASE I:  GENERAL KNOWLEDGE EXAM (50 POINTS)

Fifty objective-type multiple-choice questions will be selected from areas of the forestry industry reflected in the event objectives.  This phase of the event will test participant's knowledge and understanding of basic principles of forestry.  Some questions may also pertain to forestry management/finances, chainsaws and to map interpretation.

**TIME:**  Each individual will be allowed 30 minutes to complete this phase of the event.

**SCORING:** Each answer has a value of one point, for a total maximum score of 50 points.

## PHASE II: TREE IDENTIFICATION (50 POINTS)

Twenty five trees or tree specimens from the following list will be viewed by participants to identify by common names.  Each specimen will be designated by a number.

**TIME:** Each participant will be allowed 30 minutes to complete this phase, or approximately two minutes for each specimen station.

**SCORING:** Two points will be given for each tree/specimen that is correctly identified.

**LIST OF POSSIBLE SPECIMENS**

Alder
American Basswood
Apple
Balsam Fir
Balsam Poplar
Beech  /American Beech
Big Tooth Aspen / Large-Tooth
    Aspen
Black Ash / Swamp Ash
Black Cherry
Black Walnut
Box Elder
Cottonwood
Eastern Hemlock
Eastern Hophornbeam/
    Ironwood
Elm
Gray Birch
Northern Red Oak / Red Oak
Northern White Cedar /
    Eastern White Cedar
Northern White Oak / White
    Oak
Norway Spruce
Quaking Aspen
Red Cedar / Eastern Juniper
Red Maple
Red Pine
Red Spruce
Service Berry / Shad Bush
Striped Maple / Moose Maple
Sugar Maple
Tamarack / Larch / Eastern
    Larch
White Ash
White Birch / Paper Birch
White Pine / Eastern White
    Pine
Willow
Yellow Birch

**PHASE III: INDIVIDUAL PRACTICUMS (100 Points)**

**TIME:** Each participant will be allowed 30 minutes to complete each practicum for a total of one hour.

**SCORING:** 50 points will be given for each practicum, resulting in a maximum 100 points.

Students will demonstrate skills in two of the following individual practicums, selected by judges.
- Timber Stand Improvement/Thinning
- Tree Measurements
- Equipment Identification
- Map Interpretation
- Compass
- Chainsaw Parts and Identificiation, Troubleshooting and Safety
- Tree/Forest Disorder Identification-
    Aphid  (inc. Adelgid Aphid)
    Beetles
    Butt or heart rot
    Canker
    Chemical damage
    Cicada
    Damping off
    Fire damage
    Girdling
    Gypsy moth
    Ice damage
    Leaf spot
    Lightning damage
    Mechanical logging/construction damage
    Needle cast
    Nematode
    Rust
    Sawfly
    Scale
    Spider mite
    Spruce budworm
    Sunscald
    Tent caterpillar
    Wetwood or slime slug
    Wind damage
    Woodborer
- Forest Products Identification
- Forest Business Management

**PHASE IV: TEAM PRACTICUMS (200 Points)**

**DESCRIPTION:** Teams will be provided with one of the following activities below.

**SCORING:** 200 points will be given for this activity.

**Option 1: Forest Industry Scenario Team Activity (250 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. All supplies and materials needed to complete the task will be provided.

**Option 2: Forestry Issues Presentation Team Activity (250 points)**

Teams will communicate their knowledge and opinion of Maine forestry issues through a presentation before a judge. A list of general issue topics for participants to study is provided below. The specific topic will be provided at the event.

> • What practices or processes have affected timber sales and or markets in your region?
> • What are some important forest pests? Why is it important to control them?
> • What are the positive and negative aspects of genetically modified trees?
> • What are some issues that urban foresters face?
> • What forestry best management practices (BMPs) are used in your state and why?
> • How does watershed restoration impact communities? What role can forest management play in watershed restoration?
> • Explain forest fragmentation and the strategies used to prevent it.
> • Explain what the Sustainable Forest Initiative (SFI) and Forest Stewardship Council (FSC) are and
> what they have in common.
> • How are endangered species protected by law? Why should we be concerned about saving them?
> • What is woody biomass? What are the positives and negatives of producing woody biomass?
>
> **Example scenario:**
> You are speaking to a group of private forest landowners concerning the Conservation Reserve Program (CRP). Many CRP contracts are due to expire in the next five years and will no longer be available in the future. How will this affect the price of timber and future reforestation?
> Scoring criteria are presented on the Team Issues Preparation Rubric and the Team Issues Presentation Scoring Rubric, which will be recorded by a judge.

**TOTAL SCORES:**

Individual- 50 (General Knowledge) + 50 (Tree ID) + 100(Practicums) =**200 Points**
Team-  200 (Team Event) + 800 (Individual Scores)                      = **1000 Points**