

State FFA Virtual Forestry Career Development Event - 2021

The State FFA Forestry Career Development Event will be conducted for individuals and teams of up to four contestants from each participating chapter of whose scores the top **FOUR** will be counted. In 2021, all three exams for this event will be conducted virtually. Contestants should have no materials on hand and access no internet sites or other resources during the exams.

PHASE I: BASIC KNOWLEDGE AND CONCEPTS, GENERAL KNOWLEDGE EXAM (100 POINTS)

Forty-five objective-type multiple-choice questions and five photo or sample identifications of common tree disease/damage agents 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.

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

SCORING: Each answer has a value of two points, for a total maximum score of 100 points.

POSSIBLE TYPES OF TREE DISEASE / DAMAGE AGENTS

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

PHASE II: TREE IDENTIFICATION (100 POINTS)

Twenty photos of different trees species from the following list will be displayed for participants to identify by common names. Photos representing each depicted tree species will be designated by a number.

TIME: Each participant will be allowed 30 minutes to complete this exam.

SCORING: Five points will be given for each tree that is correctly identified (100 points total)

LIST OF POSSIBLE TREE SPECIES

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

PHASE III: CHAINSAW PART & TOOL / EQUIPMENT IDENTIFICATION

A. Chainsaw Part Identification.

Each participant will identify **ten** parts of a chainsaw. These parts will each be shown in a photo, indicated by an arrow or finger as needed).

Possible parts include (but are not limited to):

- Air Filter
- Anti-Vibration Spring
- Attack Point
- Carburetor
- Chain Braker
- Chain Catcher
- Choke
- Cutting Tooth
- Decompression Button
- Dogs
- Kickback Pint
- Pull Side of Chain
- Push Side of Chain
- Raker
- Spark Arrester
- Spark Plug
- Throttle / Trigger Lock

TIME: Each participant will be allowed up to 20 minutes to

SCORING: A total of 50 points are possible.

B. Tool / Equipment Identification

15 tools or pieces of equipment from the following list will be displayed by photos for participants to identify by technical names. Each piece of equipment, or tool referred to, will be designated by number. (a handy reference for this test is either a Forestry Suppliers or Ben Meadows catalog)

TIME: Each participant will be allowed 30 minutes to complete Parts A & B of this chainsaw/tool & equipment ID test.

SCORING: 4 points for each correct answer - total 100 points.

LIST OF POSSIBLE TOOLS / EQUIPMENT

Abney Level	Plastic Flagging
Altimeter	Processor (harvester – wheeled or tracked)
Back Tank Fire Pump	Pulaski Forester Axe
Bark Gauge	Pull-Through Delimber (attachment for a crane)
Biltmore Stick	Pulp Hook
Boom-Delimber	Relaskop
Brand Hammer	Safety Glasses
Cable Skidder	Safety Hard Hat
Canthook	Scale Stick
Chaps	Self-Loader Truck
Clambunk Skidder	Self-Propelled Loader
Clinometer	Slasher
Crosscut Saw	Soil Sampler
Data Recorder	Soil Test Kit (some type)
Densiometer	Staff Compass
Diameter Tape	Stereoscope
Dot Grid	Stroke Delimber
Drip Torch	Survey Instrument (some type)
Ear Protectors	Tally Book
Feller Forwarder	Tally Meter
Felling Wedge	Target
Fiberglass Measuring Tape	Timber Scribe
Fire Rake	Tracked Feller-Buncher (Harvester)
Fire-Swatter	Tracked Skidder
Fire Weather Kit	Tree Caliper
Flow/Current Meter	Tree Injector
Forwarder	Tree Marking Gun
Grapple Skidder	Tree Planting Hoe or Bar
GPS Receiver	Tree Stick
Hand Compass	Treelength Loader (Crane)
Hand Lens/Field	Truck with Log Trailer
Hip Chain	Water Sampler
Hypo-Hatchet	Water Test Kit
Increment Borer	Wedge Prism
In-Woods Delimber	Wheeled Caliper
Jacob Staff	Wheeled Feller-Buncher (Harvester)
Knuckle Boom Loader	Wheeled Grapple Skidder
Log rule	Whole Tree Chipper
Logger s Tape	
Peavey	
pH Meter	
Planimeter	
Plant Press	