



# Georgia FFA Association

## NURSERY/LANDSCAPE - SENIOR CDE

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### I. OVERVIEW

The Nursery/Landscape Career Development Event tests participant knowledge and skills in various aspects of the industry. The team event includes identification of plant materials and disorders, as well as a hands-on problem solving and written exam involving the production, design, installation and maintenance of landscape plants, related products, equipment and services.

### II. PURPOSE

To stimulate career interest, encourage proficiency development, and recognize excellence in students of nursery practices and landscaping through the agricultural education curriculum.

### III. ELIGIBILITY

This event is open to students in grades 9-12 who are agricultural education students and are paid members of a chartered FFA chapter. Each member of the team must be a member of the chapter registering them, and each student's name must appear on the chapter's FFA roster at least 10 days prior to competition above the chapter level.

There is a national competition; no student who is a member of another state winning team may compete and no member of the state winning nursery/landscape team is eligible to compete in another CDE until after the national competition.

### IV. SPECIAL NEEDS REQUEST

To report any special needs or request special services for a student to compete in a Career Development Event or FFA Award area (Area or State level), it is the responsibility of the FFA advisor to provide a detailed and specific request and explanation in writing. Requests should include written documentation from the school system verifying the IEP and need being requested. Written requests must be submitted to the CDE Superintendent prior to registering for the CDE/event (at least 3 weeks prior to the date of competition).

### V. RULES

1. Each Chapter may enter one team at the area competition. Team Make-up: A team representing a chapter will consist of three or four members. With a four-member team, the top three individual scores will be added to determine the team score.
2. Under no circumstances will any participant be allowed to touch or handle plant materials or other specimens during the event.
3. It is highly recommended that participants be in official FFA dress during the event.
4. Neither coaches nor teachers may enter the competition area until the event superintendent announces the end of the event and areas are open to be reviewed.
5. Each participant must have the following tools: clean clipboard, 2 pencils, engineer's scale and architect's scale, hands lens, and a calculator. The calculator **MAY ONLY** have these functions: addition, subtraction, multiplication, division, equals, percent, square root, +/- key and one memory register. No graphing or programmable calculators will be allowed.
6. Swapping or sharing tools (calculators, scales, clipboards, etc.) with other participants will only be permitted at the discretion/permission of the CDE Superintendent.
7. This event will follow the general procedures established for all Georgia FFA CDEs.
8. The State FFA Executive Committee and their appointees will be in charge of this event.
9. The top two teams from each area will advance on to state competition.



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## VI. EVENT FORMAT

The career development event will be conducted in *five phases* as follows:

PHASE	POINTS
<b>Identification of Plant Materials, Equipment and Supplies:</b> Twenty-five items from the Georgia Nursery/Landscape List will be displayed for contestants to identify. Ten points will be awarded for each correct answer, and participants have 25 minutes to complete this event phase.	250
<b>General Knowledge:</b> The general knowledge section will consist of twenty-five questions covering all areas of the nursery/landscape industry. Ten points will be awarded for each correct answer, and participants have 25 minutes to complete this event phase.	250
<b>Problem Solving:</b> This phase will consist of five questions. Twenty points will be awarded for each correct answer. Participants have 20 minutes to complete this event phase. The problem solving questions will come from these designated areas:  <ol style="list-style-type: none"><li>1. Media Volume</li><li>2. Area and Volume</li><li>3. Chemical and Fertilization</li><li>4. Irrigation</li><li>5. Pricing</li></ol>	100
<b>Disorder Identification:</b> Contestants will be required to identify plant disorders including diseases, insects, weeds, and nutritional disorders and specify, if requested, those pesticides or other treatments necessary to remedy the problem. Items for this phase of the career development event will be selected from the Disorder List. Ten points will be awarded for each correct answer, and participants have 20 minutes to complete this event phase.	100
<b>Landscape Practicum:</b> The practicum is designed to evaluate participant knowledge of and ability in 1) evaluating a landscape design, 2) reading a landscape drawing, 3) measuring and calculating materials needed to execute a landscape plan, and 4) evaluating factors that affect profitability of a landscape business. Contestants will answer ten multiple-choice questions about a landscape drawing, and each correct answer has a value of 10 points. Participants have 20 minutes to complete this event phase.	100
<b>Total Points per Individual</b>	<b>800</b>



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### VII. SCORING

Participant scores are the sum of the five phases of the event and team scores are the sum of the three highest member scores. Possible points are as follows:

Phase	Member	Team
Identification of Plant Materials	250	750
General Knowledge	250	750
Problem Solving	100	300
Disorder Identification	100	300
Landscape Practicum	100	300
<b>Total</b>	<b>800</b>	<b>2400</b>

### VIII. TIE BREAKERS

In the case of tie, individual or team total scores will determine the final placing by comparing, in order, scores for the following:

1. Written Exam
2. Plant Identification
3. Landscape Practicum
4. Disorders
5. Problem Solving

### IX. AWARDS

Awards shall be determined each year by the Board of Trustees of the Georgia FFA Foundation. This event is made possible through the Georgia FFA Foundation as a special project of an industry sponsor or from the Foundation general fund. Minimum awards will recognize the first place individual in each area, and the first and second individuals at the state level.

### X. REFERENCES

*Landscaping Principles and Practices*. Delmar Publishers

*Introduction to Horticulture, Science & Technology*. Interstate

*Turfgrass Science & Management*. Delmar.

*Introductory Horticulture*, Delmar

AGNL-01.470 (Nursery Landscape Curriculum)

AGGHPS – 01.461 (General Horticulture/Plant Science Curriculum)



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### **XI. ADDITIONAL RESOURCES**

[www.gaaged.org](http://www.gaaged.org) – Past written exams, practicum and interactive plant identification quiz available.

[www.ffa.org](http://www.ffa.org) – a sample of national written exam and links to additional study aids includes resources on plant and disorder identification, landscape drawing practicum, and FFA Supply Service for ordering prior copies of National General Knowledge Test.

[www.pestweb.com](http://www.pestweb.com) – Insects and other organisms are thoroughly covered

[www.GrowZone.com](http://www.GrowZone.com) – online professional horticulture resource guide

[www.designerlandscape.com](http://www.designerlandscape.com) – displays design elements and supplies several links

[www.irrigation.org](http://www.irrigation.org) – accurate and reliable information about irrigation equipment and supplies

[www.turfgrassod.org](http://www.turfgrassod.org) – wide assortment of information for homeowner and turf amateurs

[www.extension.uga.edu](http://www.extension.uga.edu) - cooperative extension service website with many horticulture links of information



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201. Abelia, Glossy / *Abelia x grandiflora* cv.
202. Ajuga (Carpet Bugle) / *Ajuga reptans* cv.
203. Anisetree, Japanese / *Illicium anisatum*
204. Arborvitae, Arborvitae cv
205. Astible / *Astible* hybrid cv.
206. Aucuba, Japanese / *Aucuba japonica* cv.
207. Azalea, Indica / *Rhododendron indicum* cv.s
208. Azalea, Kurume / *Rhododendron obtusum* cv.s
209. Barberry, Japanese / *Berberis thunbergii*
210. Bermudagrass, Hybrid / *Cynodon dactylon* x *Cynodon transvaalensis*
211. Birch, River / *Betula nigra*
212. Boxwood / *Buxus* species
213. Bradford Pear / *Pyrus calleryana* 'Bradford'
214. Butterfly bush / *Buddleia davidii*
215. Camellia, Sasanqua / *Camellia sasanqua* cv.
216. Camellia / *Camellia japonica* cv.
217. Cast Iron Plant / *Aspidistra elatior*
218. Centipedegrass / *Ermochloa ophiuroides*
219. Cherry, Japanese Flowering / *Prunus serrulata*
220. Cherry Laurel, *Prunus laurocerasus* cv.
221. Clematis / *Clematis* species and cv.
222. Cleyera, Japanese / *Ternstroemia gymnanthera*
223. Columbine / *Aquilegia x hybrida* cv.
224. Crabapple, Flowering/ *Malus* species and cv.
225. Crape Myrtle / *Lagerstroemia indica* cv.
226. Cypress, Leyland / x *Cupressocyparis leylandii*
227. Cypress, Bald / *Taxodium distichum*
228. Daylily / *Hemerocallis* species and cv.
229. Dogwood, Flowering / *Cornus florida*
230. Elaeagnus / *Elaeagnus pungens*
231. Euonymus, Winged / *Euonymus alatus*
232. False Cypress, Golden Mop Threadleaf/ *Chamaecyparis pisifera* 'Golden Mop'
233. Fescue / *Festuca* spp. and cv.
234. Forsythia, Border / *Forsythia intermedia*
235. Fountain Grass / *Pennisetum setaceum*
236. Gardenia, Cape Jasmine / *Gardenia jasminoides*
237. Ginkgo / *Ginkgo biloba*
238. Hawthorn, Indian / *Raphiolepis indicum*
239. Holly, Carissa / *Ilex cornuta* 'Carissa'
240. Holly, Chinese / *Ilex cornuta* cv.
241. Holly, Compacta / *Ilex crenata* 'Compacta'
242. Holly, Dwarf Burford / *Ilex cornuta* 'Burfordii'
243. Holly, Dwarf Yaupon / *Ilex vomitoria* 'Nana'
244. Holly, Helleri / *Illex crenata* 'Helleri'
245. Holly, Sky Pencil / *Ilex crenata*
246. Holly, Savannah / *Ilex attenuata*
247. Holly, Weeping Yaupon / *Ilex vomitoria* 'Pendula'
248. Hosta / *Hosta x hybrida* cv.
249. Hydrangea, Oakleaf / *Hydrangea quercifolia*
250. Hydrangea, Bigleaf / *Hydrangea macrophylla*
251. Ivy, English / *Hedera helix*
252. Jasmine, Confederate / *Trachelospermum jasminoides*
253. Juniper, Blue Rug / *Juniperus horizontalis* 'Wiltoni'
254. Juniper, Shore / *Juniperus conferta*
255. Juniper, Andorra / *Juniperus horizontalis* 'Plumosa'
256. Lenten Rose / *Helleborus orientalis* cv.
257. Lantana / *Lantana camara*
258. Liriope / *Liriope muscari* cv.
259. Loropetalum / *Loropetalum chinense*
260. Magnolia, Saucer / *Magnolia soulangiana* cv.
261. Magnolia, Southern / *Magnolia grandiflora* cv.
262. Mahonia, Leatherleaf / *Mahonia bealei*
263. Maple, Sugar / *Acer saccharum* cv.
264. Maple, Red / *Acer rubrum* cv.
265. Maple, Japanese / *Acer palmatum* cv.
266. Mondo Grass / *Ophiopogon japonicus*
267. Nandina, Dwarf / *Nandina domestica* (dwarf cv.s)
268. Nandina / *Nandina domestica*
269. Oak, Live / *Quercus virginiana*
270. Oak, Pin / *Quercus palustris*
271. Oak, White / *Quercus alba*
272. Osmanthus, Tea Olive / *Osmanthus fragrans*
273. Pachysandra / *Pachysandra terminalis*
274. Pieris / *Pieris japonica*
275. Pine, Mugo / *Pinus mugo*
276. Pine, Eastern White / *Pinus strobus*
277. Pittosporum, Japanese / *Pittosporum tobia*
278. Poplar, Yellow (tuliptree) / *Liriodendron tulipifera*
279. Privet Hedge, Variegated / *Ligustrum sinense*
280. Privet, Glossy / *Ligustrum lucidum*
281. Pyracantha / *Pyracantha coccinea*
282. Quince, Flowering / *Chaenomeles speciosa* cv.
283. Redbud, Eastern / *Cercis Canadensis*
284. Rhododendron / *Rhododendron catawbiense*
285. Rose, Hybrid Tea / *Rosa x* cv.s
286. Rosemary / *Rosmarinus officinalis*
287. Sago Palm / *Cycas revoluta*
288. Salvia / *Salvia nemorosa*
289. Sedum / *Sedum spurium*
290. Spirea, Anthony Waterer / *Spiraea x bumalda* 'Anthony Waterer'
291. Spirea, Vanhoutte / *Spiraea x vanhouttei*
292. Viburnum, Chinese Snowball / *Viburnum macrocephalum* 'Sterile'
293. Vinca (Periwinkle) / *Vinca minor*
294. Waxmyrtle, Bayberry / *Myrica* species
295. Willow, Weeping / *Salix babylonica*
296. Wintercreeper / *Euonymus fortunei*
297. Wisteria, Chinese / *Wisteria sinensis* cv.
298. Yew, Plum / *Cephalotaxus harringtonia* cv.
299. Yucca (Adams Needle) / *Yucca filamentosa* cv.
300. Zoysia, Emerald / *Zoysia* (Emerald Strain)



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### Disorders/Remedies

- 201. Aphid
- 202. Bagworm
- 203. Borer
- 204. Grub
- 205. Leaf Miner
- 206. Mealy Bug
- 207. Scale
- 208. Slug
- 209. Spider Mite
- 210. Whitefly
- 211. Black Spot
- 212. Iron Chlorosis
- 213. Powdery Mildew
- 214. Annual Bluegrass
- 215. Plaintain
- 216. Nutgrass
- 217. Chickweed
- 218. Clover
- 219. Crabgrass
- 220. Dandelion
- 221. Henbit
- 222. Oxalis
- 223. Purslane
- 224. Wild Garlic/Onion
- 225. Apply Fungicide
- 226. Apply Herbicide
- 227. Apply Insecticide
- 228. Apply Miticide/Acaricide
- 229. Apply Molluscicide Bait

### Horticulture Tools and Materials

- 301. Bark Medium
- 302. Compressed Air Sprayer
- 303. Drip Tape
- 304. Fertilizer, Granular
- 305. Ground Limestone
- 306. Hand Pruning Saw
- 307. Hedge Shears
- 308. Irrigation Timer
- 309. Landscape Fabric
- 310. Loppers
- 311. Perlite
- 312. Pop-up Irrigation Head
- 313. Pruner, Bypass
- 314. Safety Goggles
- 315. Sand
- 316. Scale, Architects
- 317. Scale, Engineers
- 318. Shade Fabric (Shade Cloth)
- 319. Siphon Proportioner
- 320. Soaker Hose
- 321. Solenoid Valve
- 322. Spade
- 323. Sphagnum Moss
- 324. Spray Suit
- 325. Sprinkler, Impulse
- 326. Tape Measurer
- 327. Trowel
- 328. Vermiculite
- 329. Water Breaker