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.
## VI. EVENT FORMAT

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

<table>
<thead>
<tr>
<th>PHASE</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Identification of Plant Materials, Equipment and Supplies:</strong> 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.</td>
<td>250</td>
</tr>
<tr>
<td><strong>General Knowledge:</strong> 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.</td>
<td>250</td>
</tr>
<tr>
<td><strong>Problem Solving:</strong> 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:</td>
<td>100</td>
</tr>
<tr>
<td>1. Media Volume</td>
<td></td>
</tr>
<tr>
<td>2. Area and Volume</td>
<td></td>
</tr>
<tr>
<td>3. Chemical and Fertilization</td>
<td></td>
</tr>
<tr>
<td>4. Irrigation</td>
<td></td>
</tr>
<tr>
<td>5. Pricing</td>
<td></td>
</tr>
<tr>
<td><strong>Disorder Identification:</strong> 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.</td>
<td>100</td>
</tr>
<tr>
<td><strong>Landscape Practicum:</strong> 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.</td>
<td>100</td>
</tr>
</tbody>
</table>

**Total Points per Individual** 800
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:

<table>
<thead>
<tr>
<th>Phase</th>
<th>Member</th>
<th>Team</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification of Plant Materials</td>
<td>250</td>
<td>750</td>
</tr>
<tr>
<td>General Knowledge</td>
<td>250</td>
<td>750</td>
</tr>
<tr>
<td>Problem Solving</td>
<td>100</td>
<td>300</td>
</tr>
<tr>
<td>Disorder Identification</td>
<td>100</td>
<td>300</td>
</tr>
<tr>
<td>Landscape Practicum</td>
<td>100</td>
<td>300</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>800</strong></td>
<td><strong>2400</strong></td>
</tr>
</tbody>
</table>

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


*Introductory Horticulture.* Delmar

AGNL-01.470 (Nursery Landscape Curriculum)

AGGHPS – 01.461 (General Horticulture/Plant Science Curriculum)
XI. ADDITIONAL RESOURCES

www.gaaged.org – Past written exams, practicum and interactive plant identification quiz available.

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 – Insects and other organisms are thoroughly covered

www.GrowZone.com – online professional horticulture resource guide

www.designerlandscape.com – displays design elements and supplies several links

www.irrigation.org – accurate and reliable information about irrigation equipment and supplies

www.turfgrasssod.org – wide assortment of information for homeowner and turf amateurs

www.extension.uga.edu - cooperative extension service website with many horticulture links of information
201. Abelia, Glossy / Abelia x grandiflora cv.
202. Ajuga (Carpet Bugle) / Ajuga reptans cv.
203. Anisette, 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 / Ernchoa ophiuroides
219. Cherry, Japanese Flowering / Prunus serrulata
220. Cherry Laurel, Prunus laurocerasus cv.
221. Clematis / Clematis species and cv.
222. Clevera, Japanese / Ternstroemia gymnanthera
223. Columbine / Aquilegia x hybrid 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 / Ilex crenata ‘Helleri’
245. Holly, Sky Pencil / Ilex crenata
246. Holly, Savannah / Ilex attenuata
247. Holly, Weeping Yaupon / Ilex vomitoria ‘Pendula’
248. Hosta / Hosta x hybrid 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
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. Mundo 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 tobira
278. Poplar, Yellow (tuliptree) / Liriodendron tulipifera
279. Privet Hedge, Varigated / 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 catawbienese
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
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)
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. Plantain
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