NURSERY/LANDSCAPE CAREER DEVELOPMENT EVENT

RULES AND REGULATIONS
TEAM COMPETITION



ALABAMA FFA ASSOCIATION

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Alabama State Department of Education, Dr. Eric G. Mackey, State Superintendent of Education

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Revised September 2020 Nursery/Landscape CDE Committee

NURSERY/LANDSCAPE CAREER DEVELOPMENT EVENT

PURPOSE

To give FFA members an opportunity to use the nursery and landscape skills they have acquired in Agriscience Education courses and to make FFA members more fully aware of the horticultural enterprises in Alabama.

ELIGIBILITY AND REGULATIONS

- 1. For specific eligibility of participants, refer to the Contests and Awards Booklet.
- 2. Only district eliminations will be held prior to the state event.
- 3. The top four place winners in the North, Central and South Districts will compete in the state finals.
- 4. If a cell phone is seen or heard in the possession of a competitor, that individual student will be disqualified from competition and receive a score of zero.
- 5. The team will consist of a maximum of four members. The team's total score will be based on the sum of the points earned by the three highest scoring participants on the team.
- 6. Competitors must enter their name on the scorecard or they will receive a score of zero. Judges will not attempt to figure out who the card belongs to.

DISCLAIMER

In the event that contests (CDE, LDE, TDE's) cannot be held in person, a virtual option may be conducted. Contest rules and guidelines are subject to change to meet the needs of a virtual experience.

ALTERNATE POLICY

For district level events, if a chapter brings alternates there will be no more than two alternates allowed per team. Alternates will use a copy of the scan form (not an original) for those events scored via judgingcard.com. If more than four official scan forms are turned in for a chapter in one event, the highest score(s) for that team will be disqualified and deleted until the chapter only has four team members in the scoring system. Alternates must not be in groups with official team members.

For state level events, alternates are not allowed.

DISTRICT EVENT

- 1. The event will be held at regular district event eliminations.
- 2. A team will consist of a maximum of four members. The top three scorers will make up the team score.
- 3. The event will have three required phases.
 - Identification of Plants, Pests, Disorders and Materials (25 specimens) -- 6 points each
 - Note: "Cuttings may be substituted for live specimens."

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- General Knowledge Examination (50 questions) -- 4 points each
- Landscape Estimating (20 Questions) 10 points each

- 4. Additional phases may be included in the event. Each district will decide what, if any, will be included.
- 5. Participants will have 30 minutes to complete the written examination, and one minute per specimen/ item for identification of plant materials and tools, locate on identification list, and complete scantron. Students will have 60 minutes to complete the Landscape Estimating portion of the event.
- 6. The district event will be scored as follows.
 - Individual scores will be the sum of the scores on the three required phases.

<u>Phase</u>	Possible Points
Written Examination	- 200 points
Identification	 150 points
Landscape Estimating	- 200 points

• The team score will be the sum of the scores of the three highest team members (A team may consist of four contestants, with the lowest score being dropped.)

NOTICE If ties occur at the district event, the team with the highest combined score in the general knowledge examination phase will be the winner. If still tied, select the team with the highest combined score in the Identification of plant materials phase. Same order when there are high scoring individual ties.

STATE EVENT

- 1. A team will consist of a maximum of four members. The top three scorers will make up the team score.
- 2. Participants entering the Nursery and Landscape Career Development Event may not enter the FFA Floriculture Career Development Event the same year.
- 3. The event will have six phases.
 - Identification of Plants, Pests, Disorders, Beneficial Insects, Equipment and Supplies
 - General Knowledge Examination
 - Landscape Estimating
 - Verbal Customer Assistance
 - Written Customer Assistance
 - Nursery Propagation or potting
- 4. Any communication between participants during the event will be sufficient cause to eliminate the team(s) involved from the event.
- 5. Any assistance given to a team member from any source during the event will be sufficient cause to eliminate the team from the event.

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6. Under no circumstance will any participant be allowed to touch or handle plant material or equipment in the Identification of Plant Materials phase of the event. Any infraction of this policy will be sufficient cause to eliminate the team from the event.

- 7. References -- A list of references for use as a guide in training teams may be made available, but the event will not be based exclusively on these references. See the Recommended References section.
- 8. Coaches/Advisors may not enter the event area until the event has been completed.
- 9. The state event will be held during the State FFA Convention.

STATE EVENT PHASES

- Phase 1 -- IDENTIFICATION OF PLANTS, PESTS, DISORDERS AND MATERIALS (150 points)
 - Note: "Cuttings may be substituted for live specimens."

Participants will identify Fifty (50) items selected from the provided list covering the following categories:

- Plant Materials
- Beneficial Insects, Pests and Disorders
- Equipment and Supplies

Plants to identify will be presented as intact, live specimens or cuttings. Equipment may be either an intact item or photograph. Pest and disorder items may be presented as an intact specimen, photograph or preserved specimen (herbarium sheet, insect mount, etc.).

When a problem must be presented with an affected plant, a "Disorder" label will be with the item to designate identification of the problem instead of the plant.

Each specimen will be designated by a station number. When the participant identifies the item, its name is then located on the identification list. The participant then records the number by that name on a scan form at the respective station number. This must be done within the 45 second per specimen time constraint. Each participant will be provided a copy of the list at the event site. No specimens or items may be touched or handled in any way. Each answer has a value of three points.

Phase 2 -- GENERAL KNOWLEDGE EXAMINATION (150 points)

Fifty (50) objective-type, multiple-choice questions will be selected from the areas listed below. This phase of the event will test the participant's knowledge and understanding of basic horticultural principles in producing, marketing, using and maintaining landscape plants and turf. Each participant will be allowed approximately 30 minutes to complete this phase. Each answer has a value of three points.

- Plant Materials
- Planting or Growing Media
- Diagnosis of Plant Disorders
- Materials (Growth Regulators, Fertilizer, etc.)
- Propagation
- Safety
- Cultural Instructions
- Landscape Design, Establishment, and Maintenance
- Turf and Lawn Establishment and Maintenance

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Phase 3 -- LANDSCAPE ESTIMATING (100 points)

Participants will be furnished with a landscape drawing and scratch paper. Participants will answer 20 objective questions designed to evaluate his/her knowledge of and ability in

evaluating a landscape design; reading a landscape drawing; determining materials needed to execute a landscape plan; maintenance estimating and bidding; and evaluating factors that affect profitability of a landscape business. Each answer has a value of 5 points. A scantron sheet will be used as the score sheet. Approximately 60 minutes will be allowed for this practicum. Simple calculators (those which perform the basic math skills) will be allowed. Participants may use a ruler or scale to assist in this phase, however, they must be provided by the participants themselves.

Phase 4 -- WRITTEN CUSTOMER ASSISTANCE (50 points)

The participant will assume the role of a customer service representative. A copy of correspondence about a plant, landscape, or business question will be provided, along with the appropriate response information. Each participant will hand-write, in ink pen and in business letter format, the response to the writer. Scratch paper will be provided for a rough draft in pencil if desired. Only the final draft in ink on the letterhead stationary provided will be scored. Thirty (30) minutes will be allowed for the practicum. A pocket size dictionary or electronic speller is allowed for checking spelling. Scoring criteria are presented on the "Written Customer Assistance" score card, which will be recorded by a judge.

Phase 5 -- VERBAL CUSTOMER ASSISTANCE (50 points)

This interpersonal relations practicum is designed to evaluate participant knowledge of and ability in 1) verbal communication, 2) sales and customer assistance skills, 3) plant materials, plant culture and problems, 4) nursery and landscape supplies and equipment. The participant will assume the role of a customer service representative (garden center or other related business or an educational agency) responding to an assistance need of the customer or client (the judge). General themes might include, but are not limited to, the following: clinic diagnosis or recommendations; care advice; sales of plants, equipment, treatments; deal with complaints. Each participant will be located at a station with one minute allotted to review the materials and information provided prior to arrival of the judge. These materials may be handled and referred to as appropriate for the conversation with the judge. Plants, disorders, supplies not listed on the material and plant resource lists will be communicated prior to the event. Scoring criteria are listed on the respective scorecard.

Phase 6 -- NURSERY PROPAGATION OR POTTING (50 points)

This practicum is designed to evaluate participant knowledge of and ability in performing fundamental nursery production practices. All participants will perform one of the following exercises. The selected exercise will not be announced prior to the start of the event. The participant will have 5 minutes to complete the taskm unless otherwise stated by the contest officials prior to the start of this portion of the event. Judges will ask clarifying questions of the students.

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- a. Propagating Nursery Stock Each participant will be furnished a stock plant, or stock plant material, rooting flat and media, rooting hormone, a hand pruner, a label and marking pen. (Personal propagating knives or pruners are allowed, if desired.) Participants are to prepare the designated softwood or hardwood cuttings and place them in the media with a single label.
- b. Potting Nursery Stock Each participant will be furnished a supply of plants, nursery containers or pots of appropriate size and media. Hand pruners, a label and a marking pen will also be provided. (Personal pruners are allowed, if desired.) The participants will pot the plants, one per container, using standard nursery practices. Plant division or grading of liners may be involved. One finished container will be labeled.

An official will observe and score each participant during the application of the practicum. Following completion of the assigned practicum the official will ask questions regarding the propagation or potting activity. Scoring criteria are listed on the respective scorecards.

SCORING THE STATE EVENT

Individual scores will be the sum of the scores of Phases 1, 2 and 3 of the event.

	<u>Phase</u>	Possible Points
4	Identification of Blanta Boots Biomedons and Materials	450
	Identification of Plants, Pests Disorders and Materials	150
2.	General Knowledge Examination	150
3.	Landscape Estimating	100
4.	Written Customer Assistance	50
5.	Verbal Customer Assistance	50
6.	Nursery Propagation or Potting	<u>50</u>
	Total Possible Poin	$\overline{550}$

Note: If a team consists of four members, the lowest individual team member's score will be dropped.

Team scores will be the sum of the three highest team members individual scores (1,650 points possible).

If ties occur at the state event, the total of the three team members' scores in the following events will be used in the order that they are listed to determine the winner:

- 1) Written Examination
- 2) Plant Identification
- 3) Landscape Estimating
- 4) Written Customer Assistance

Same order as the above when there are ties for high scoring individual.

STATE AWARDS/SPONSOR(S):

Refer to Alabama FFA Contests and Awards Booklet at: http://www.alabamaffa.org/forms applications.htm

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RECOMMENDED REFERENCES

The following list of references is a guide to team training. Some content areas have more than one title listed. This reflects the wide array of quality references available that will provide a proper foundation for this event. No single reference is recommended as superior over others in that area. Other references than those listed may be equally valuable resources, along with the many videos and computer-based training aids that are available.

Books

Introduction to Horticulture. 4th Edition, 2004. Charles B. Schroeder, Eddie Dean Seagle, Lorrie M. Felton, John M. Ruter, William Terry Kell, and Gerard Krewer. Printice-Hall, Inc., Englewood Cliffs, NJ. ISBN 0130364134

Introductory Horticulture. 6th Edition, 2002. H. Edward Reiley and Carroll L. Shry, Jr. Delmar Publishers Inc., Albany, NY. ISBN 0766815676

Ornamental Horticulture: Science, Operations and Management. 3rd Edition, 2001. Jack Ingels. Delmar Publishers Inc., Albany, NY. ISBN 0766814173

Introduction to Plant and Soil Science and Technology. 2003. Ronald J. Biondo and Jasper S. Lee. Prentice-Hall, Inc., Englewood Cliffs, NJ. ISBN 0813432162

Practical Horticulture. 5th Edition. 2003. Laura W. Rice and Robert P. Rice. Prentice-Hall, Inc., Englewood Cliffs, NJ. ISBN 0130946346

Plant Propagation: Principles and Practices. 6th Edition, 1997. Hudson T. Hartmann, Fred T. Davies, Jr., Dale E. Kester, and Robert L. Genieve. Prentice-Hall, Inc., Englewood Cliffs, NJ. ISBN 0132061031

Nursery Production - A Teachers Manual. Revised edition, 1989. Department of Agricultural Education, Pennsylvania State University, University Park, PA.

Nursery Management: Administration and Culture. 4th Edition, 2000. Harold Davidson, Roy Mecklenburg, and Curtis Peterson. Prentice-Hall, Inc., Englewood Cliffs, NJ. ISBN 0138579962

American Standard for Nursery Stock. 2004. American Association of Nurserymen, Inc., 1250 I St., NE, Suite 500, Washington, DC. (available as pdf file free to nonmembers at http://www.anla.org)

Landscape Plants: Their Identification, Culture, and Use. 2nd Edition. 2003. Ferrell M. Bridwell. Delmar Publishers Inc., Albany, NY. ISBN 0766836347

Manual of Woody Landscape Plants. 5th Edition, 1998. Michael A. Dirr. Stipes Publishing Co., Champaign, IL. ISBN 0875638007

Trees for Urban and Suburban Landscapes. 1997. Edward Gilman. Delmar Publishers Inc., Albany, NY. ISBN 0827370539

A Field Guide to Woody Landscape Plants of the Southeast. 2002. Rex Bishop. Tea Olive Productions. Marietta, GA ISBN097253430X

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Know It and Grow It III: A Guide to the Identification and Use of Landscape Plants. 1999. Carl E. Whitcomb. Lacebark, Inc. Stillwater OK ISBN 0961310910

Introduction to Landscaping: Design, Construction, and Maintenance. 3rd Edition, 2003. Ronald J. Biondo and Charles B. Schroeder. Prentice-Hall, Inc., Englewood Cliffs, NJ. ISBN 0813431719

Landscaping: Principles and Practices. 6th Edition, 2004. Jack Ingles. Delmar Publishers Inc., Albany, NY. ISBN 1401834108

Landscape Design: A Practical Approach. 5th Edition, 2002. Leroy G. Hannebaum. Prentice-Hall, Inc., Englewood Cliffs, NJ. 0130105813

An Illustrated Guide to Landscape Design, Construction, and Management. 1998. Gregory M. Pierceall. Prentice-Hall, Inc., Englewood Cliffs, NJ. ISBN0813430194

Landscaping Construction. 2nd Edition. 2005. David Sauter. Delmar Publishers Inc., Albany, NY. ISBN 140184281X

Landscape Construction Procedures, Techniques, and Design. 4th Edition, 1999. Floyd Giles. Stipes Publishing Co., Champaign, IL. ISBN 0875638848

Landscape Operations: Management, Methods, and Materials. 3rd Edition, 1999. Leroy Hannebaum. Prentice-Hall, Inc., Englewood Cliffs, NJ. ISBN 0138569150

Professional Landscape Management. 1994. David L. Hensley. Stipes Publishing Co., Champaign, IL. ISBN 0875635210

Arboriculture: Integrated Management of Landscape Trees, Shrubs and Vines. 4th Edition, 2004. Richard W. Harris, James R. Clark, and Nelda P. Matheny. Prentice-Hall, Inc., Englewood Cliffs, NJ. ISBN 0130888826

Turfgrass Science and Management. 3rd Edition, 2000. Robert D. Emmons. Delmar Publishers Inc., Albany, NY. ISBN 076681551X

Turfgrass Management. 7th Edition, 2005. A.J. Turgeon. Prentice-Hall, Inc. Englewood Cliffs, NJ. ISBN 0131140000

Turfgrass Management Handbook. 6th Edition, 2002. Charles B. Schroeder and Howard B. Sprague. Prentice-Hall, Inc., Englewood Cliffs, NJ. ISBN 0813430836

Ortho Problem Solver. 6th Edition, 2003. Michael McKinley (ed.). Meredith Books. Des Moines, IA. ISBN 0897214943

Home Gardener's Problem Solver. 2001. Michael McKinley. Meredith Books. Des Moines, IA. ISBN 0897214706

Insects That Feed on Trees and Shrubs. 2nd Edition, 1991. Warren T. Johnson and Howard H. Lyon. Comstock Publishing Associates, Ithaca, NY. ISBN 0801426022

Diseases of Trees and Shrubs. 1987. Wayne A. Sinclair, Howard H. Lyon, and Warren T. Johnson. Comstock Publishing Associates, Ithaca, NY. ISBN 0801415179

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Mathematics for Horticulture. 1994. Ohio Agricultural Education Curriculum Materials Service, The Ohio State University, Columbus, OH. Item #9512M

Care and Operation of Small Gasoline Engines. 1990. American Association for Vocational Instructional Materials, Athens, GA. No. 1086W

Reference Manual for Office Personnel. 6th Edition, 1991. Clifford R. House and Kathie Sigler. South-Western Publishing Co., Cincinnati, OH. ISBN 0538114517

Business Communications. 2004. A.C. Krizon, Patricia Merrier, Carol Jones Larson. South-Western Publishing Co., Cincinnati, OH. ISBN 0324272251

Ornamental Horticulture for Agribusiness Education in Alabama. Agriscience Education, 3410 Skyway Drive, Auburn, AL 36830-6444.

Horticulture/Floriculture Student Study Guide. Agriscience Education, 3410 Skyway Drive, Auburn, AL 36840-6444.

Horticulture Test Bank. Agriscience Education, 3410 Skyway Drive, Auburn, AL 36830-6444.

Trade Periodicals

American Nurseryman. American Nurserymen Publishing Co., Chicago, IL

Grounds Maintenance. Primedia, Overland Park, KS.

Catalogs

Many horticultural supply company catalogs can be utilized for reference support on tools, equipment, and supplies that may not be illustrated in other sources. The Following company has given permission for listing their catalog:

A.M. Leonard, Inc., 665 Spiker Road, Piqua, OH 45356 (513/773-2697 or http://www.amleo.com/index1.html)

Websites and Problem Samples

Visit the national FFA website at http://www.ffa.org/ for information on career development events, access to prior-year event materials, and links to additional study aids. The Nursery/Landscape CDE committee website at

<u>http://www.hort.vt.edu/faculty/McDaniel/nationalFFA.htm</u> also offers additional aids for team preparation. Additional Links and resources will be included as they are developed or identified, along with the following links of the CDE sponsors:

http://www.stihlusa.com/knowhow/

http://www.kubota.com

http://www.arvesta.com/

Nursery Landscape Plant List

No.	Botanical Name/Common Name	No.	Botanical Name/Common Name
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01 Abelia x grandiflora / Glossy Abelia 02 Abies concolor / White Fir	
	136 Ficus benjamina / Benjamin Fig 137 Ficus elastica 'Decora' / Decora Rubber Plant
03 Acer palmatum cv. / Japanese Maple	138 Forsythia x intermedia cv. / Border Forsythia
04 Acer platanoides cv. / Norway Maple	139 Fraxinus americana cv. / White Ash
05 Acer rubrum cv. / Red Maple	140 Gaillardia aristata cv. / Common Blanketflower
06 Acer saccharum cv. / Sugar Maple	141 Gardenia jasminoides 'Fortuniana' / Common
07 Ajuga reptans cv. / Carpet Bugle	Gardenia
08 Antirrhinum majus cv / Snapdragon	142 Ginkgo biloba / Ginkgo, Maidenhair Tree
09 Aquilegia x hybrida cv. / Columbine	143 Gleditsia triacanthos inermis cv. / Thornless
10 Amelanchier arborea / Downy Serviceberry	Honeylocust
11 Astilbe hybrid cv. / Astilbe	144 Hedera helix cv. / English Ivy
12 Begonia semperflorens-cultorum / Wax Begonia	145 Hemerocallis spp. and cv. / Day lily
13 Berberis x mentorensis / Mentor Barberry	146 Hosta x hybrida cv. / Plaintain Lily
14 Betula nigra / River Birch	147 Hydrangea quercifolia / Oakleaf Hydrangea
15 Brassaia actinophylla / Schefflera, Octopus Tree	148 Hydrangea macrophylla / Bigleaf Hydrangea
16 Buxus microphylla cv. / Littleleaf Boxwood	149 Ilex cornuta cv. / Chinese Holly
17 Camellia japonica cv. / Common Camellia	150 Ilex crenata cv. / Japanese Holly
18 Cedrus atlantica 'Glauca' / Blue Atlas Cedar	151 Ilex x meserveae cv. / Meserve Holly
19 Cercis canadensis / Redbud	152 Impatiens hybrid cv. / Impatiens
20 Chaenomeles speciosa cv. / Japanese (Flowering)	153 Iris x germanica florentina cv. / Bearded Iris
Duince	154 Juniperus chinensis cv./ Juniper Chinese
21 Clematis hybrid / Clematis	155 Juniperus horizontalis cv. / Creeping Juniper
22 Cornus florida cv. / Flowering Dogwood	156 Lagerstroemia indica cv / Crape Myrtle
23 Cotoneaster dammeri / Bearberry Cotoneaster	157 Leucanthemum x superbum cv. / Shasta Daisy
24 Cotoneaster divaricatus / Spreading Cotoneaster	158 Liquidambar styraciflua / Sweet Gum
25 Crataegus phaenopyrum / Washington Hawthorn	159 Liriodendron tulipifera / Tuliptree
26 Cynodon dactylon cv / Bermudagrass	160 Liriope spp. cv. / LilyTurf
27 Dieffenbachia maculata cv. / Spotted Dumb Cane	161 Lonicera japonica 'Halliana' / Hall's Japanese
28 Dracaena deremensis 'Warneckii' / Striped	Honeysuckle
Pracaena	162 Magnolia grandiflora cv. / Southern Magnolia
29 Dracaena fragens 'Massangeana' / Corn Plant	163 Magnolia x soulangiana cv. / Chinese (Saucer)
30 Echinace purpurea / Purple Coneflower	Magnolia
31 Epipremnum spp. / Pothos	164 Mahonia aquifolia cv. / Oregon Grape
32 Euonymus alatus / Winged Euonymus	165 Malus spp. and cv. / Flowering Crabapple
33 Euonymus fortunei cv. / Wintercreeper	
34 Fagus sylvatica cv. / European Beech	
35 Festuca spp. and cv / Fescue	
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Nursery Landscape Plant List

166 Myrica pensylvanica / Bayberry **194 Rhododendron x catawbiense /** Catawba **167 Nandina domestica /** Heavenly Bamboo Hybrid Rhododendron 195 Rhododendron Hybrid / Exbury Hybrid Azalea **168 Narcissus pseudonarcissus cv. /** Daffodil 169 Nyssa sylvatica / Sour (Black) Gum 196 Rosa app. / Landscape/Shrub Rose cv. 170 Pachysandra terminalis / Japanese Spurge 197 Salvia nemorosa cv. / Meadow Sage 198 Sedum spurium cv. / Sedum 171 Paeonia hybrid cv. / Peony 172 Parthenocissus tricuspidata / Boston Ivy 199 Solenostemon scutellarioides / Coleus 173 Pelargonium x hortorum cv. / Zonal 200 Sorbus aucuparia / European Mountain Ash Geranium 201 Spiraea x bumalda / Bumalda Spirea 174 Pennisetum ruppelia / Fountain Grass 202 Syringa vulgaris cv. / Common Lilac 175 Petunia x hybrida cv. / Petunia 203 Tagetes spp. cv. / Marigold 176 Philodendron scandens oxycardium / 204 Taxodium distichum / Bald Cypress Heartleaf Philodendron 205 Taxus spp. and cv. / Yew 206 Thuja occidentalis cv. / American Arborvitae 177 Picea abies / Norway Spruce 178 Picea pungens cv. / Colorado (Blue) Spruce 207 Tilia cordata / Littleleaf Linden 179 Pieris japonica / Lily-of-the-Valley Bush 208 Tsuga canadensis / Canadian Hemlock 180 Pinus mugo / Mugo Pine 209 Tulipa spp. cv. / Tulip 181 Pinus strobus / Eastern White Pine 210 Verbena x hybrida cv. / Garden Verbena **211 Viburnum x burkwoodii** / Burkwood Viburnum **182 Pinus sylvestris /** Scotch Pine 183 Pinus thunbergiana / Japanese Black Pine **212 Viburnum trilobum /** American Cranberrybush 184 Platanus x acerifolia / London Planetree Viburnum 213 Vinca minor cv. / Periwinkle 185 Poa pratensis cv Kentucky Bluegrass 186 Podocarpus macrophyllus / Southern Yew 214 Viola x wittrockiana cv. / Pansy 187 Potentilla fruticosa cv. / Shrubby Cinquefoil 215 Wisteria sinensis cv. / Chinese Wisteria 188 Prunus laurocerasus cv. / Cherry Laurel 216 Yucca filamentosa / Adam's Needle 189 Prunus serrulata 'Kwanzan' / Kwanzan Japanese Flowering Cherry 190 Pyracantha coccinea cv. / Firethorn 191 Quercus alba / White Oak 192 Quercus palustris / Pin Oak 193 Quercus rubra / Red Oak

Nursery Landscape Pests and Disorders Identification

Pests Weeds 217 Aphid 237 Annual Bluegrass 218 Bagworm 238 Broadleaf Plantain 219 Borer 239 Buckhorn Plantain 220 Leafhopper 240 Chickweed 221 Leaf Miner 241 Crabgrass 222 Scale 242 Dandelion 243 Henbit 223 Spider Mite 224 Snail/Slug 244 Nutsedge 225 Whitefly 245 Oxalis 226 White Grub 246 Purslane 247 White Clover **Diseases** Physiological Problems 227 Anthracnose 248 Frost/Freeze Injury 228 Apple Scab 249 Iron Deficiency 229 Black Spot 230 Botrytis 250 Leaf Scorch (drought/winter burn) 231 Canker 251 Nitrogen Deficiency 232 Cedar-Apple Rust 252 Pot-bound roots 233 Crown Gall 253 String Trimmer Injury 234 Fireblight 254 2,4-D Injury 235 Powdery Mildew 236 Root Rot **Beneficial Insects** 255 Praying Mantis 256 Lady Beetle 257 Paper Wasp 258 Lacewing 259 Spider

Nursery Landscape Equipment and Supplies Identification

No. Item Name	No. Item Name	No. Item Name

260	anvil-and-blade pruner	286	ground/pelleted	318	quick coupler
261	ball cart (B&B truck)		limestone	319	quick coupler head
262	bark mulch	287	hedge shears		adapter
263	bow saw	288	hoe	320	reel mower
264	broadcast (cyclone)	289	hook-and-blade	321	resin-coated fertilizer
	spreader		pruners	322	rotary mower
265	bubbler head, irrigation	290	hose-end repair fitting		rototiller
	bulb planter		hose-end sprayer	324	round point shovel
	bunker rake		hose-end washer		scoop shovel
-	burlap	293	hose repair coupling		shade fabric
	compressed air sprayer		impact sprinkler		sharpening stone
	core aerifier		irrigation ring tool		siphon proportioner
	chain saw		landscape fabric		soaker hose
	cut-off machine		leaf rake		soil sampling tube
	drip emitter, irrigation		loppers		solenoid valve
	dry-lock wall block		mattock		spade
	edger (power or hand)		measuring wheel		sphagnum moss
	edging		mist nozzle (mist bed)		square point (flat) shovel
	erosion netting		mower blade balancer		string trimmer
	fertilizer injector		nursery container		thatch rake
	fertilizer tablet		oscillating sprinkler		tree caliper
_	garden (spading) fork		peat moss		tree wrap
	garden (spading) fork		pick axe		trowel
	grafting band		-		vertical mower
		307	planting/earth/soil		water breaker
	grafting knife	200	auger		wire tree basket
	granular fertilizer		pole pruner	342	wire tree basket
283	gravity (drop) spreader		polyethylene pipe		
			pop-up irrigation head		
			post-hole digger		
			power blower		
			power hedge trimmer		
			pot-in-pot units		
			pump sprayer		
			propagation mat		
		317	pruning saw		
				l	

Name	Chapter

	Possible	Score
Customer Relations	Points	
Customer Relations		
 Does the letter create/maintain goodwill (is it free of negative words that create an unpleasant tinge)? Is the tone appropriate for the letter purpose? Does the letter emphasize reader (you) rather than writer (I)? Is the tone and reading level appropriate for reader? 	10	
Business Letter Form		
 Is the letter written in acceptable business format including the date, inside address, salutation, body, complimentary close, signature and additional data (pc, enclosure, etc.)? 	10	
Organization		
 Is the content organized in logical, coherent order? Is the letter properly divided into paragraphs with topic sentences? Is the letter divided into sentences which clearly convey key points? Does the letter use short conversational words? 	10	
Technical Information		
 Is the technical information provided in letter correct? Is the information provided in simple, clear, concise manner? Does the letter relate directly to the inquiry? 	10	
Grammar/Punctuation		
Is the letter free of grammatical, punctuation and spelling errors?	10	

Score	50	

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VERBAL CUSTOMER ASSISTANCE PRACTICUM SCORE SHEET

Name	Chapter
	-

Conversation: (40 points possible)	Possible Points	Member Score
Approach	4	

		1
 Effective Greeting and offers to help. 		
 Positive, Enthusiastic and not hesitan 	t.	
Personality	8	
 Pleasant and friendly manner. 		
Not pushy to sale.		
Voice	8	
 Easy to hear and understand. 		
 Proper grammar used; good speaking 	form.	
Information Requested From Custome	er 8	
Determines assistance needs.		
Effectively asks details and preference	es.	
Salesmanship	8	
Effective and tries to expand sale.		
 Develops Customer confidence in pro 	duct/ service.	
Closing	4	
Repeats order and handles payment. ((if applicable)	
Asks if instructions are understood.	ar approximately	
"Thank You" Close.		
	-	
Draduat Brahlam Brasadura Bras	antation.	
Product Problem Procedure Pres	EIITATIOIT: (10 points possible)	
Correct Product/ Procedure Presentat	ion 4	
Correct Product/ Problem Information	Provided 4	
Clarity of Information Provided to such	tomer 2	
Clarity of Information Provided to cust	tomer	
	Score 50	
•	OCOLE 3	

NL-15

POTTING NURSERY STOCK PRACTICUM SCORECARD

Chapter

	Possible Points	Member Score
Potting Process (34 points)		
Preparation of Plants		
Plants selected for quality and uniformity		
 Inspects/prunes/grooms damaged parts 		
 Prunes excess root length 	10	
 Handles plants properly 		
Placement of plants in containers		
Plant centered and vertical		
 Roots carefully and properly spread 		
Plant at proper depth	10	
Plant roots covered		
Media Filling and Settling		
Sufficient media added		
 Media settled by bumping or hand firming 	10	
Plant remains stable		
Labeling of Complete Units		
Plant (variety) name and date		
• Legible	2	
Safety Practices Applied		
Proper cutting technique		
Tool closed when finished	2	
 Minimal clutter/good organization in work area 		
Potting Productivity (10 points))	
Number of units Completed	5	
Quality and uniformity of units Completed	5	
Overall quality and uniformity of lot		
Questions (6 points)		
Response to Questions	6	
Total Points	50	

PROPAGATING NURSERY STOCK PRACTICUM SCORECARD

Name_____ Chapter____

	Possible Points	Member Score
Propagation Process (34 points)		
Removal of Cuttings		
Selects best quality, uniform stock		
Cuts at appropriate lengths	5	
Makes clean cuts		
Preparation of Cuttings		
Leaves stripped/trimmed/groomed as needed		
Proximity of cuts to nodes		
Angled or wounded basal cut	10	
Cutting/buds not damaged		
Application of Proper Hormone		
Sufficient applied and excess removed		
Hormone kept clean	7	
Placement of Cuttings in Media		
Proper medium depth, as applicable		
Media furrow cut and closed	8	
Proper sticking depth		
Efficient row and cutting spacing		
Labeling of Completed Units		
Plant (variety) name, date, treatment		
Legible	2	
Safety Practices Applied		
Proper cutting technique		
Tool closed when finished	2	
Minimal clutter in work area		
Propagation Productivity (10 points)		
Number of Units Completed	5	
Quality and Uniformity of Units Completed	5	
Uniform size and placement		
Cutting stable in media		
Questions (6 points)	-	
Response to Questions	6	
Total Points	50	