

**Tennessee FFA Association**

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**Floriculture  
Handbook  
2017-2021**

## Purpose

*The Tennessee FFA Floriculture Career Development Event is designed to create an interest in career preparation for all current and future aspects of the floriculture industry through leadership development and hands on technical skill development using industry standards which are delivered through the agriculture education curriculum.*

Floriculture is a discipline of horticulture concerned with the cultivation of flowering and ornamental plants for gardens and the floral industry.

The floriculture industry encompasses the following:

- Greenhouse and field production and management.
- Garden center and floral shop management.
- Floral design and management.

## Objectives

- Identify plant materials, supplies, and equipment utilized in the floriculture industry.
- Demonstrate an understanding of the biological and scientific principles and develop the skills underlying propagation, variety development, growth requirements, growing techniques, harvesting, marketing and maintenance of established floriculture plants.
- Identify and recommend solutions for plant disorders.
- Demonstrate the use of principles of design and develop related skills.
- Identify, select, operate and maintain appropriate supplies and equipment for floriculture production, design and marketing.
- Demonstrate the use of safety procedures and practices in floriculture operations.
- Operate, manage and maintain facilities for floriculture operations.
- Demonstrate interpersonal skills necessary for successful employment in the floriculture industry.
- Demonstrate proper sales and customer service skills.
- Demonstrate general business practices appropriate to the floriculture industry.
- Effectively work together as a team.

## Event Rules

*Each team will be comprised of four members.*

- All four scores will be used to determine total team score.
- FFA Official Dress is NOT required for this event.
- Under no circumstances will any participant be allowed to touch or handle plant material during the event except when instructed by the event staff.
- Any communication between participants during the event will be sufficient cause to eliminate the team from the event. The exception to this is the team activity.
- Any participant caught cheating during the event will be expelled from the event.
- All participants are expected to be prompt at their stations throughout the event. No provision will be made for tardiness, which will in most cases cause the late participant to lose event points.
- The event superintendent will assign the participants to group leaders who will escort them to various event staging sites. Participants must know their participant number and stay in their assigned group at all times or until told to change leaders by the event superintendent.
- Any assistance given to a participant from any source during the event, other than a floriculture official, will be sufficient cause to eliminate the team from the event.
- All participants will be given an identification number by which they will be designated throughout the event.
- Various computer applications may be utilized throughout the floriculture event.
- Any participant in possession of an electronic and/or communication device in the event area is subject to disqualification.

## Event Format

Materials students need to provide:

- Clear, transparent clipboard, free of notes
- Two sharpened No. 2 pencils
- Prepared résumé
- Floral cutters/clippers
- Ribbon shears
- Wire cutters
- Floral knife
- Calculator- Should be battery operated, non-programmable and non-scientific (basic five function only). No other calculators are allowed to be used during the event.
- Participants may also bring an apron, and/or a tool belt and towels.

### TEAM ACTIVITY (800 POINTS)

Each team will perform an assignment routinely performed in some phase of the floriculture industry that requires teamwork. Prior to the event, the Tennessee FFA Floriculture Career Development Event committee will select a theme and series of floriculture industry assignments that span the breadth of the industry from production to design. These tasks will be described in situational terms for presentation to each team. Forty-five minutes will be allowed for completing the activity. There will be an additional fifteen minutes for preparation and clean up. All materials needed to complete the assignment will be provided.

The type of assignments that may be used in this phase of the event are but are not limited to:

- Prepare floral products for an event.
- Prepare and pack floral products for shipping and updating inventory.
- Create a floral product display.
- Create a greenhouse production and task schedule to meet the needs of a given customer

Scoring criteria for the team preparation and presentation are on the team activity scorecard which will be recorded by a judge.

## INDIVIDUAL ACTIVITIES

### IDENTIFICATION OF PLANT MATERIALS AND EQUIPMENT (200 POINTS)

Fifty specimens from the floriculture plant and equipment identification list will be displayed for participants to identify by technical and common names. A number will designate each specimen. Four points will be awarded for each specimen that is correctly identified. Each participant will be allowed 25 minutes to complete this phase of the event.

### GENERAL KNOWLEDGE EXAMINATION (200 POINTS)

Participants will answer 50 multiple choice questions that cover all areas of the floriculture industry as reflected in the event objectives. The test will be made up of the previous five years National FFA Floriculture General Knowledge Exams located on [ffa.org](http://ffa.org). This phase of the event will test participants' knowledge and understanding of basic biological and scientific principles of producing and marketing flowers, plants and foliage. Each participant will be allowed 50 minutes to complete the exam. Each answer has a value of four points.

### PROBLEM-SOLVING/DECISION-MAKING (200 POINTS)

Each participant will solve ten problems related to the various aspects of the floriculture industry identified in the event objectives. Each problem will describe the situation or create the problem and list four possible solutions to the problem. The participant must decide on the best possible solution to the problem. All materials and information necessary to solve the problem will be available to the participant as he/she solves the problem. Each participant will be allowed 50 minutes to complete this phase of the event. Each correct solution has a value of 20 points.

### ANNUAL PRACTICUMS (300 POINTS)

Each participant will complete three annual practicums:

1. Floral arrangement
2. Job interview
3. Growing procedures

### FLORAL ARRANGEMENT (100 POINTS)

Make a \$55 floral arrangement (The \$55 cost will include both labor and tax and be within fifty

cents either way of the \$55). The event superintendent will announce the type of arrangement during the team orientation meeting. Using the materials provided, participants will be allowed 20 minutes to complete their arrangements and itemized bills. The event assistant at the beginning of the practicum will provide participants the retail price of the flowers and foliage that they will use in their arrangements. The markup will be built into the retail price. When the participant has determined the total arrangement cost, he or she has included the markup. Retail cost of flowers and foliage given to the participant will be determined after polling florists to determine their current retail prices on the flowers and foliage used in the event. Scoring criteria are presented on the floral arrangement practicum scorecard which will be recorded by a judge.

### **Explanation of Floral Arrangement Terms**

- **Design:** Category Interpretation: Design follows objective/ scenario given
- **Balance:** Physical and visual
- **Creativity:** Artistic inventiveness
- **Depth:** Placement of materials at different levels throughout the arrangement
- **Focal Emphasis:** Design has one area of design that attracts the eye to it
- **Line:** Movement
- **Mechanics:** Professional techniques and application
- **Scale:** Proportion
- **Unity:** Cohesiveness of design

### **JOB INTERVIEW (100 POINTS)**

Each participant will appear before an employer (judge) for the purpose of interviewing for a position available in the employer's business. The event superintendent will announce specific information about the job for which the participant is applying at the team orientation meeting. Participants will be given two job descriptions at the team orientation meeting along with application forms to complete. Participants will be allowed to choose the job they wish to interview for and prepare their applications prior to participating in the practicum. Participants will be expected to prepare, prior to the event, a résumé of their experiences and background to present to the judge at the time of the interview. Ten minutes will be allowed for this practicum. Participants will be allowed five minutes to complete the interview and five minutes for judges to score the interview. Scoring criteria are presented on the job interview practicum scorecard which will be recorded by a judge.

## GROWING PROCEDURES (100 POINTS)

One or more of the three below will be demonstrated on an annual basis. Twenty minutes will be allowed for this section including questions from the judges.

### Potting of Young Plants (Plugs or Liners)

- Participants will be asked to plant young plants in the pots provided. Each participant will be given a group of young plants from which to select their transplants from; an appropriate pot or pots; potting medium at the correct moisture level, ID stake and a marking pencil.
- Scoring criteria are presented on the plant potting practicum scorecard which will be recorded by a judge.

### Asexual Propagation of Plants

- Each participant will be provided the parent plant materials and all other materials needed to propagate plants asexually. Using the available materials, participants will take cuttings from the plant before them and stick them in rooting media labeled correctly. Participants should sanitize all equipment and use appropriately in a safe manner.
- Scoring criteria are presented on the asexual plant propagation scorecard which will be recorded by a judge.

### Pinching Plants

- A plant will be placed before each participant. The participant will be given instructions as to what they are to do to the plant by the event assistant in charge of the practicum. Participants will be judged on the procedures they follow in pinching the plant.
- Scoring criteria are presented on the pinching plant scorecard which will be recorded by a judge.

## ROTATIONAL PRACTICUMS (75 POINTS)

In addition to the three annual practicums, three practicums will be selected from the list below for each noted year. The three to be used will be identified by the event superintendent in the annual team orientation packet that is available during the summer prior to convention on the CDE webpage. Of the six rotational practicums, a yearly rotation of two practicums shall be used. One of the two rotational practicums will be chosen for the state CDE.

## SELLING PRACTICUM (75 POINTS) (ONE WILL BE CHOSEN)

### Selling One-On-One

- Each participant will assume the role of a sales person in a floriculture business (grower,

florist shop, garden center, etc.)A customer (judge) with a specific need will approach the participant. The participant will help the customer meet his/her need by using sales skills. All supplies, information and the business setting in which the participant works will be provided. Ten minutes will be allowed for this practicum. Of the ten minutes, participants will be allowed five minutes for dialogue with the customer and completion of the sales form. Judges will be allowed five minutes to score the participant. Scoring criteria are presented on the selling one-on-one practicum scorecard which will be recorded by a judge.

### **MEDIA SELLING (75 POINTS)**

Each participant will be asked to create or evaluate advertising from the following:

- Newspaper/catalog ad
- Radio script
- Newsletter
- Brochure/flyer
- Email
- Social media
  - Facebook
  - Twitter
  - Video – YouTube
  - Web homepage

All information and materials needed to develop the advertisement will be provided. Twenty minutes will be allowed for this practicum. Of the 20 minutes, 12 minutes will be allotted for preparation, five minutes for oral/written presentation and three for judges to score.

Scoring criteria are presented on the media selling practicum which will be recorded by a judge.

### **MAKE A MIXED PLANTER COMBINATION (75 POINTS)**

Each participant will make a \$35 mixed planter combination. All plant materials, growing media and containers will be provided. Twenty minutes will be allowed for each participant to make their mixed planter combination and complete the itemized listing of costs. At the beginning of the practicum, the participant will be provided with the retail price of plants and other materials to be used in their mixed planter combination. The markup is built into the retail price.

Scoring criteria are presented on the making a mixed planter combination practicum scorecard



which will be recorded by a judge.

### **MAKE AND PACKAGE A CORSAGE (75 POINTS)**

Each participant will make and package a \$25 corsage. The type of corsage and information about the corsage will be announced by the event assistant in charge at the beginning of the practicum. All plant and non-plant materials needed to construct and package the corsage will be provided. Each participant will be allowed 20 minutes to complete the construction of the corsage and complete an itemized listing of costs for the corsage constructed.

Scoring criteria are presented on the making and packing a corsage scorecard which will be recorded by a judge.

### **IDENTIFYING AND CONTROLLING PLANT DISORDERS (75 POINTS)**

Pest and disorder items may be presented as an intact specimen, photograph or preserved specimen (herbarium sheet, insect mount, etc.). Each specimen will be designated by a station number. The participant must identify the item and its classification (nutritional/ environmental, insect/ pest, or disease). The participant then must determine the damage location as well as chemical and culture controls for the disorder. Each participant will identify 15 specimens total for this event.

No specimens or items may be touched or handled in any way. Fifteen minutes will be allowed for this event. Refer to the Disorder Practicum Scorecard for additional details.

The plant disorders will come from the following list of disorders.

#### **Nutritional and Environmental Disorders**

- Cold temperature (freeze)
- Cold water damage
- Ethylene damage
- Insufficient water damage
- Iron deficiency
- Nitrogen deficiency
- Phosphorus deficiency

#### **Diseases**

- Botrytis – Gray mold
- Damping-off
- Downy mildew

- Leaf spot (Black)
- Powdery mildew
- Root rot
- Rust
- Stem rot
- Tosspovirus (INSV and TSWV)

**Insects and Pests**

- Aphids
- Fungus gnats
- Leaf miner
- Leafhopper
- Mealybugs
- Scale
- Shore flies
- Snails/ Slugs
- Spider mites
- Thrips
- Whiteflies

**HANDLING A HAZARDOUS SITUATION (75 POINTS)**

Each participant will be presented with a hazardous situation that could develop in a floriculture business. The participant will be asked to explain how to resolve the problem. The participant will be evaluated on their understanding of the problem and procedures and practices followed in resolving the problem. Ten minutes will be allowed for this practicum.

Scoring criteria are presented on the hazardous situation scorecard which will be recorded by a judge.

## Scoring

<b>PHASE</b>	<b>Individual Points</b>	<b>Team Points</b>
Identification of Plant Material and Equipment	200	800
General Knowledge	200	800
Problem Solving	200	800
Annual Practicums	300	1,200
Rotational Practicums	75	300
Team Activity	0	800
Total	<b>975</b>	<b>4,700</b>

## TIEBREAKERS

### INDIVIDUAL

If ties occur the following events will be used in order to determine award recipients:

1. Written Exam
2. Plant and Equipment Identification
3. Floral Arrangement Practicum
4. Growing Procedures

### TEAM

If ties occur the following events will be used in order to determine award recipients:

1. Team Activity
2. Written Exam
3. Plant and Equipment Identification

## References

*This list of references is not intended to be all-inclusive.*

- Old General Knowledge Exams located on [ffa.org](http://ffa.org)
- Other sources may be utilized, and teachers are encouraged to make use of the very best instructional materials available. The following list contains references that may prove helpful during event preparation.
- National FFA Core Catalog—Past CDE Q&A's (<http://shop.FFA.org/cde-qas-c1413.aspx>)
- Principal of Floral Design, Pat Diehl Scafe, James M. DelPrince – Goodheart Wilcox Publisher [www.g-w.com](http://www.g-w.com)
- The AIFD Guide to Floral Design: Terms, Techniques, and Traditions – The American Institute of Floral Design
- Introduction to Horticulture Science and Technology. – 5th edition 2015 Schroeder, Seagle Felton, Ruter, Interstate Publishers, Inc.
- Introductory Horticulture – Carroll Shry, Edward Reiley – Eight Edition
- Greenhouse Operation and Management – Paul V. Nelson – Seventh Edition (Specific Reference for the disorders rotational practicum)
- Ball Publishing: Ball Redbook, Volume 1&2, 18th Edition

## Floriculture Plant Identification List

101	<i>Aechmea fasciata</i> cv.	<i>Silver Vase Bromeliad</i>
102	<i>Ageratum houstonianum</i>	<i>Ageratum</i>
103	<i>Alstroemeria hybrid</i> cv.	<i>Peruvian Lily</i>
104	<i>Anemone coronaria</i>	<i>Anemone</i>
105	<i>Anethum graveolens</i> cv.	<i>Dill</i>
106	<i>Angelonia hybrid</i> cv.	<i>Angelonia</i>
107	<i>Anthurium x andraeanum</i> cv.	<i>Flamingo Plant</i>
108	<i>Antirrhinum majus</i> cv.	<i>Snapdragon</i>
109	<i>Aphelandra squarrosa</i> cv.	<i>Zebra Plant</i>
110	<i>Araucaria heterophylla</i>	<i>Norfolk Island Pine</i>
111	<i>Asparagus densiflorus</i>	<i>Sprenger Fern</i>
112	<i>Aster pringlei</i>	<i>Monte Cassino Aster</i>
113	<i>Astilbe hybrid</i> cv.	<i>Astilbe</i>
114	<i>Begonia x semperflorens –cultorum</i>	<i>Wax Begonia</i>
115	<i>Begonia x tuberhybrida</i> cv.	<i>Tuberous Begonia</i>
116	<i>Caladium x hortulanum</i> cv.	<i>Caladium</i>
117	<i>Calibrachoa hybrid</i> cv.	<i>Million Bells</i>
118	<i>Callistephus chinensis</i> cv.	<i>China Aster</i>
119	<i>Campanula hybrid</i> cv.	<i>Campanula</i>
120	<i>Canna x generalis</i> cv.	<i>Garden Canna</i>
121	<i>Capsicum annum</i>	<i>Ornamental Pepper Plant</i>
122	<i>Catharanthus roseus</i>	<i>Periwinkle</i>
123	<i>Celosia argentea</i> cv.	<i>Cockscomb</i>
124	<i>Chamaedorea elegans</i>	<i>Parlor Palm</i>
125	<i>Chamelaucium uncinatum</i>	<i>Waxflower</i>
126	<i>Cholorophytum comosum</i> cv.	<i>Spider Plant</i>
127	<i>Chrysanthemum x morifolium</i>	<i>Florist's Chrysanthemum</i>
128	<i>Clematis hybrid</i> cv.	<i>Clematis</i>
129	<i>Codiaeum variegatum pictum</i>	<i>Croton</i>
130	<i>Crassula argentea</i>	<i>Jade Plant</i>
131	<i>Cycas revoluta</i> cv.	<i>Sago Palm</i>
132	<i>Cyclamen x persicum</i> cv.	<i>Florist's Cyclamen</i>
133	<i>Cymbidium</i> cv.	<i>Cymbidium Orchid</i>
134	<i>Cymbopogon</i> cv.	<i>Lemongrass (herb)</i>
135	<i>Dahlia hybrid</i> cv.	<i>Dahlia</i>
136	<i>Delphinium consolida</i> cv.	<i>Larkspur</i>
137	<i>Dendrobium</i> cv.	<i>Dendrobium Orchid</i>
138	<i>Dianthus caryophyllus</i> cv.	<i>Carnation</i>
139	<i>Dracaena cincta</i>	<i>Red Edge Dracaena</i>

140	<i>Echinocactus</i> cv.	<i>Barrel Cactus</i>
141	<i>Epipremnum aureum</i> cv.	<i>Golden Pothos</i>
142	<i>Erica carnea</i> cv.	<i>Spring Heather</i>
143	<i>Eucalyptus polyanthemos</i>	<i>Silver Dollar Eucalyptus</i>
144	<i>Euphorbia pulcherrima</i> cv.	<i>Poinsettia</i>
145	<i>Eustoma grandiflorum</i>	<i>Lisianthus</i>
146	<i>Exacum affine</i>	<i>Persian Violet</i>
147	<i>Ficus benjamina</i> cv.	<i>Benjamin Fig</i>
148	<i>Ficus elastica</i> cv.	<i>Rubber Plant</i>
149	<i>Fragaria x ananassa</i> cv.	<i>Strawberry Plant</i>
150	<i>Freesia x hybrida</i>	<i>Freesia</i>
151	<i>Gardenia jasminoides</i>	<i>Gardenia</i>
152	<i>Gerbera jamesonii</i>	<i>Gerbera Daisy</i>
153	<i>Gladiolus x hortulanus</i> cv.	<i>Garden Gladiolus</i>
154	<i>Gomphrena hybrid</i> cv.	<i>Globe Amaranths</i>
155	<i>Gypsophila elegans</i> cv.	<i>Baby's Breath</i>
156	<i>Hedera helix</i> cv.	<i>English Ivy</i>
157	<i>Helianthus annuus</i>	<i>Sunflower</i>
158	<i>Hemerocallis</i> cv.	<i>Daylily</i>
159	<i>Hippeastrum hybrid</i> cv.	<i>Amaryllis</i>
160	<i>Hosta</i> cv.	<i>Hosta</i>
161	<i>Hoya carnosa</i>	<i>Wax Plant</i>
162	<i>Hyacinthus orientalis</i> cv.	<i>Hyacinth</i>
163	<i>Hydrangea macrophylla</i>	<i>Big Leaf Hydrangea</i>
164	<i>Impatiens hybrid</i> cv.	<i>Impatiens</i>
165	<i>Impomoea batatas</i> cv.	<i>Ornamental Sweet Potato</i>
166	<i>Iris x xiphium</i> cv.	<i>Dutch Iris</i>
167	<i>Senecio cineraria</i>	<i>Dusty Miller</i>
168	<i>Justica brandegeana</i>	<i>Shrimp Plant</i>
169	<i>Kalanchoe x blossfeldiana</i> cv.	<i>Kalanchoe</i>
170	<i>Leucanthemum x superbum</i>	<i>Shasta Daisy</i>
171	<i>Leucospermum hybrid</i> cv.	<i>Pin Cushion Protea</i>
172	<i>Liatris spicata</i>	<i>Liatris</i>
173	<i>Lilium hybrid</i> cv.	<i>Asiatic or Oriental Lily</i>
174	<i>Limonium sinuatum</i>	<i>Statice</i>
175	<i>Lobularia maritima</i>	<i>Alyssum</i>
176	<i>Maranta leuconeura</i>	<i>Prayer Plant</i>
177	<i>Matthiola incana</i> cv.	<i>Stock</i>
178	<i>Monstera deliciosa</i>	<i>Split Leaf Philodendron</i>

179	Narcissus hybrid cv.	<i>Daffodil or Narcissus</i>
180	Nephrolepis exaltata cv.	<i>Boston Fern</i>
181	Ocimum basilicum cv.	<i>Basil</i>
182	Opuntia cv.	<i>Cactus</i>
183	Paeonia cv.	<i>Peony</i>
184	Paphiopedilum hybrid cv.	<i>Ladyslipper Orchid</i>
185	Pelargonium x hortorum cv.	<i>Zonal Geranium</i>
186	Pelargonium peltatum cv.	<i>Ivy Geranium</i>
187	Pentas hybrid cv.	<i>Pentas</i>
188	Petroselinum crispum cv.	<i>Parsley</i>
189	Petunia x hybrida cv.	<i>Petunia</i>
190	Phalaenopsis cv.	<i>Moth Orchid</i>
191	Philodendron scandens oxycardium	<i>Heartleaf Philodendron</i>
192	Pilea cadierei	<i>Aluminum Plant</i>
193	Portulaca oleracea cv.	<i>Portulaca</i>
194	Primula malacoides cv.	<i>Primrose</i>
195	Ranunculus hybrid cv.	<i>Ranunculus</i>
196	Rhododendron simsii cv.	<i>Florist Azalea</i>
197	Rosa hybrid cv	<i>Hybrid Tea Rose</i>
198	Rumohra adiantiformis	<i>Leatherleaf Fern</i>
199	Saintpaulia ionantha cv.	<i>African Violet</i>

200	Salvia splendens cv.	<i>Salvia</i>
201	Sansevieria trifasciata cv.	<i>Snake Plant</i>
202	Schefflera arboricola	<i>Octopus Plant</i>
203	Schlumbergera bridgesii	<i>Christmas Cactus</i>
204	Sempervivum hybrid cv.	<i>Hens and Chicks</i>
205	Senecio x hybridus cv.	<i>Cineraria</i>
206	Sinningia speciosa Fyfiana Group cv.	<i>Florist Gloxinia</i>
207	Solidago hybrid cv	<i>Solidago</i>
208	Solenostemon scutellarioides	<i>Coleus</i>
209	Spathiphyllum	<i>Peace Lily</i>
210	Stephanotis floribunda	<i>Stephanotis</i>
211	Strelitzia reginae	<i>Bird of Paradise</i>
212	Syngonium podophyllum	<i>Nephtytis</i>
213	Tagetes species cv.	<i>Marigold</i>
214	Tradescantia zebrina	<i>Wandering Jew</i>
215	Tulipa cv.	<i>Tulip</i>
216	Verbena hybrid cv.	<i>Verbena</i>
217	Vinca hybrid cv.	<i>Vinca</i>
218	Viola x wittrockiana cv.	<i>Pansy</i>
219	Zantedeschia hybrid cv.	<i>Calla Lily</i>
220	Zinnia cv.	<i>Zinnia</i>

## Floriculture equipment and supply identification list

301	Anvil-and-blade pruner
302	18 Gauge floral wire
303	28 Gauge floral wire
304	#3 Ribbon (satin, sheer, wired)
305	#9 Ribbon (satin, sheer, wired)
306	#40 Ribbon (satin, sheer, wired)
307	#100 Ribbon (satin, sheer, wired)
308	Floral adhesive
309	Coconut coir
310	Bulb planter
311	Bouquet sleeve
312	Cell pack containers
313	Cardette
314	Ceramic container
315	Compressed air sprayer
316	Chenille stem
317	Drip emitter, irrigation
318	Dust mask
319	Duster
320	Corsage box
321	Corsage pin
322	Corsage snips
323	Dry foam
324	Enclosure card
325	Fern greening pins
326	Floral foam
327	Gas mask
328	Floral knife
329	Floral preservative
330	Granular fertilizer
331	Floral stem tape
332	Glass vase
333	Glue gun
334	Hanging basket

335	Hearing protection
336	Glue pan
337	Glue sticks
338	Hook-and-blade pruners (bypass pruners)
339	Hose punch
340	Hose repair coupling
341	Hose-end repair fitting
342	Hose-end sprayer
343	Hose-end washer
344	Impulse sprinkler
345	Irrigation timer
346	Irrigation tape
347	Sphagetti tubing (1/4" diameter or less)
348	Nosegay holder
349	Ribbon shears
350	Sheet moss
351	Mist nozzle (mist bed)
352	Spanish moss
353	Nursery container
354	Oscillating sprinkler
355	Peat moss
356	Peat pots
357	pH testing meter
358	Fogger
359	Styrofoam
360	Surestik cling
361	Polyethylene film
362	Polyethylene pipe
363	Tulle
364	Water picks
365	Water tubes
366	Waterproof container tape
367	Propagation mat

368	Wire cutter
369	PVC (polyvinylchloride) pipe
370	Wooden pick
371	Resin-coated fertilizer
372	Respirator
373	Wrist corsage holder
374	PVC pipe cutter
375	Greenhouse thermostat
376	Safety goggles
377	Sand
378	Scoop shovel
379	Shade fabric
380	Sharpening stone
381	Siphon injector
382	Chemical resistant gloves
383	Soil moisture meter
384	Goggles
385	Solenoid valve
386	Pest strips
387	Propagation trays
388	Sphagnum moss
389	Spray suit
390	Square point (flat) shovel
391	Rockwool propagation cubes
392	Fertilizer injectors
393	Ellepot propagation cubes
394	Rice hulls
395	Pot covers
396	Rose and stem flower stripper
397	Backflow preventer
398	Vermiculite
399	Water breaker
400	Water soluble fertilizer

# Floral Arrangement Practicum Rubric

100 points

NAME	MEMBER NUMBER
CHAPTER	STATE
	TEAM NUMBER

POSSIBLE SCORE	Excellent	Good	Needs Improvement	Member Score
Arrangement		85		
Category Interpretation	7-15 points	6-10 points	0-5 points	
Balance	7-10 points	4-6 points	0-3 points	
Creativity	7-10 points	4-6 points	0-3 points	
Depth	7-10 points	4-6 points	0-3 points	
Focal Emphasis.	7-10 points	4-6 points	0-3 points	
Line	7-10 points	4-6 points	0-3 points	
Mechanics	7-10 points	4-6 points	0-3 points	
Scale	4-5 points	2-3 points	0-1 points	
Unity	4-5 points	2-3 points	0-1 points	
Itemized List of Costs		15		
Price Range	4-5 points	2-3 points	0-1 points	
Identification and Accuracy	7-10 points	4-6 points	0-3 points	
<b>Total Possible:</b>				<b>100</b>

## EXPLANATION OF FLORAL ARRANGEMENT TERMS

**Category Interpretation:** Design follows objective scenario given

**Balance:** Physical and Visual

**Creativity:** Artistic inventiveness

**Depth:** Placement of materials at different levels throughout the arrangement

**Focal Emphasis:** Design has one area of design that attracts the eye to it

**Line:** Movement

**Mechanics:** Professional techniques and application

**Scale:** Proportion

**Unity:** Cohesiveness of design

JUDGE'S NAME

JUDGE'S SIGNATURE

DATE



# Floral Arrangement Itemized List of Costs

NAME

MEMBER NUMBER

CHAPTER

STATE

TEAM NUMBER

Quantity	FLOWER/FOLIAGE	Unit Cost	Total
<b>TOTAL FLOWER/FOLIAGE MATERIAL COST</b>			

Quantity	MATERIAL USED	Unit Cost	Total
<b>TOTAL HARD GOODS COST</b>			

<b>TOTAL ARRANGEMENT COST*</b>	

\* Participants will be provided the retail price of flowers and foliage that they will use in their arrangement by the event official at the beginning of the practicum. The markup is built into the retail price of the flowers and the foliage used in the arrangement.

# Job Interview Practicum Rubric

100 points

NAME	MEMBER NUMBER
CHAPTER	STATE
	TEAM NUMBER

		Excellent	Good	Needs Improvement	Member Score
<b>Introduction</b>					
<ul style="list-style-type: none"> <li>• Initial presentation</li> <li>• Eye contact</li> <li>• Handshake</li> </ul>	<ul style="list-style-type: none"> <li>• Gives name</li> <li>• States why here</li> </ul>	8-10 points	4-7 points	0-3 points	
<b>Knowledge of job</b>					
<ul style="list-style-type: none"> <li>• Resume                             <ul style="list-style-type: none"> <li>• Typed</li> <li>• Completeness</li> <li>• Content/Accurate</li> </ul> </li> </ul>		11-15 points	6-10 points	0-5 points	
<ul style="list-style-type: none"> <li>• Application                             <ul style="list-style-type: none"> <li>• Legibility</li> <li>• Completed</li> </ul> </li> </ul>		8-10 points	4-7 points	0-3 points	
<b>Knowledge of the floriculture industry/job</b>					
<ul style="list-style-type: none"> <li>• Tell me about yourself</li> <li>• What skills do you have for this job?</li> <li>• What are your experiences relating to this job?</li> </ul>	<ul style="list-style-type: none"> <li>• Why should I hire you over someone else?</li> <li>• How would you handle a customer complaint</li> </ul>	13-20 points	7-12 points	0-6 points	
<b>Response to questions</b>					
<ul style="list-style-type: none"> <li>• What are your weaknesses?</li> <li>• Where do you see yourself in the next 5 years?</li> </ul>	<ul style="list-style-type: none"> <li>• BONUS: Would you hire this person?</li> </ul>	11-15 points	6-10 points	0-5 points	
<b>Personality</b>					
<ul style="list-style-type: none"> <li>• Confidence</li> <li>• Enthusiasm</li> </ul>	<ul style="list-style-type: none"> <li>• Appearance</li> </ul>	11-15 points	6-10 points	0-5 points	
<b>Poise</b>					
<ul style="list-style-type: none"> <li>• Posture</li> <li>• Closure (“Thank you.”)</li> </ul>	<ul style="list-style-type: none"> <li>• Asks for the job or a decision date</li> </ul>	11-15 points	6-10 points	0-5 points	
<b>TOTAL SCORE: 100</b>					

JUDGE’S NAME	JUDGE’S SIGNATURE	DATE
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# One-on-One Practicum Rubric

75 points

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NAME

MEMBER NUMBER

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CHAPTER

STATE

TEAM NUMBER

	Excellent	Good	Needs Improvement	Member Score
Took Initiative	9-11 points	5-8 points	0-4 points	
Communicated Effectively	9-11 points	5-8 points	0-4 points	
Exhibited ambition and efficiency	9-11 points	5-8 points	0-4 points	
Diplomatic and courteous	9-11 points	5-8 points	0-4 points	
Knew merchandise, prices and policies	9-11 points	5-8 points	0-4 points	
Accuracy of information collected	9-11 points	5-8 points	0-4 points	
Closed sale properly	7-9 points	4-6 points	0-3 points	
<b>TOTAL SCORE:</b>				<b>75</b>

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JUDGE'S NAME

JUDGE'S SIGNATURE

DATE

# Potting of Young Plants Practicum Rubric

50 points

NAME

MEMBER NUMBER

CHAPTER

STATE

TEAM NUMBER

	Excellent	Good	Needs Improvement	Member Score
<b>Potting Process</b>				
Selection of plugs or liners	5-6 points	3-4 points	0-2 points	
Proper planting depth	6-8 points	3-6 points	0-2 points	
Labeling of plant/pot	5-6 points	3-4 points	0-2 points	
Correct growing medium level in pot	5-6 points	3-4 points	0-2 points	
Plug or liner arrangement and angle	5-6 points	3-4 points	0-2 points	
Firmness of growing medium	5-6 points	3-4 points	0-2 points	
General appearance (free from handling damage)	5-6 points	3-4 points	0-2 points	
Response to questions	5-6 points	3-4 points	0-2 points	
<b>TOTAL POSSIBLE:</b>			<b>50</b>	

JUDGE'S NAME

JUDGE'S SIGNATURE

DATE

# Floriculture Making a Mixed Combination Planter Rubric

75 points

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NAME

MEMBER NUMBER

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CHAPTER

STATE

TEAM NUMBER

	Excellent	Good	Needs Improvement	Member Score
Selection of products	6-8 points	3-5 points	0-2 points	
Preparation of plant materials	6-7 points	3-5 points	0-2 points	
Labeling of combo	7-10 points	4-6 points	0-3 points	
Balance	9-12 points	5-8 points	0-4 points	
Design	11-15 points	6-10 points	0-5 points	
Attractiveness	10-13 points	5-9 points	0-4 points	
Pricing	7-10 points	4-6 points	0-3 points	
<b>TOTAL SCORE: 75</b>				

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JUDGE'S NAME

JUDGE'S SIGNATURE

DATE

# Mixed Combination Planter Itemized List of Costs

NAME \_\_\_\_\_

MEMBER NUMBER \_\_\_\_\_

CHAPTER \_\_\_\_\_

STATE \_\_\_\_\_

TEAM NUMBER \_\_\_\_\_

Quantity	PLANT MATERIAL	Unit Cost	Total
<b>TOTAL FLOWER/FOLIAGE MATERIAL COST</b>			

Quantity	MATERIAL USED	Unit Cost	Total
<b>TOTAL HARD GOODS COST</b>			

<b>Total Plant Material Cost</b>	
<b>Total Hard Goods Cost</b>	
<b>Container Cost</b>	
<b>Sub Total</b>	
<b>TOTAL MIXED PLANTER COST</b>	

DATE \_\_\_\_\_

# Floriculture Making and Packing a Corsage Rubric

75 points

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NAME

MEMBER NUMBER

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CHAPTER

STATE

TEAM NUMBER

	Excellent	Good	Needs Improvement	Member Score
Wiring, taping, and/or gluing	11-15 points	6-10 points	0-5 points	
Use of ribbon	7-10 points	4-6 points	0-3 points	
Design	11-15 points	6-10 points	0-3 points	
Wear-ability	7-10 points	4-6 points	0-3 points	
Packaging	4-5 points	2-3 points	0-1 points	
Pricing (accuracy of pricing identification)	7-10 points	5-8 points	0-4 points	
Pricing	7-10 points	4-6 points	0-3 points	
<b>TOTAL SCORE: 75</b>				

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JUDGE'S NAME

JUDGE'S SIGNATURE

DATE

# Corsage Itemized List of Costs

NAME \_\_\_\_\_

MEMBER NUMBER \_\_\_\_\_

CHAPTER \_\_\_\_\_

STATE \_\_\_\_\_

TEAM NUMBER \_\_\_\_\_

Quantity	FLOWER/FOLIAGE USED	Unit Cost	Total
<b>TOTAL FLOWER/FOLIAGE MATERIAL COST</b>			

Quantity	MATERIAL USED	Unit Cost	Total
<b>TOTAL HARD GOODS COST</b>			

<b>Total Plant Material Cost</b>	
<b>Total Hard Goods Cost</b>	
<b>TOTAL CORSAGE COST</b>	

DATE \_\_\_\_\_



# Asexual Plant Propagation Rubric

50 points

NAME

MEMBER NUMBER

CHAPTER

STATE

TEAM NUMBER

	Excellent	Good	Needs Improvement	Member Score
<b>Proper sanitation and equipment use</b>	4-5 points	2-3 points	0-1 points	
<b>Selection of cuttings</b>	4-5 points	2-3 points	0-1 points	
<b>Making cuttings</b>	5-6 points	3-4 points	0-2 points	
<b>Preparation of cuttings for sticking in growing media</b>	5-6 points	3-4 points	0-2 points	
<b>Use of rooting hormone</b>	4-5 points	2-3 points	0-1 points	
<b>Selection of growing media</b>	5-6 points	3-4 points	0-2 points	
<b>Sticking of cuttings in growing media</b>	5-6 points	3-4 points	0-2 points	
<b>Cuttings labeled correctly</b>	4-5 points	2-3 points	0-1 points	
<b>Response to questions</b>	5-6 points	3-4 points	0-2 points	
<b>TOTAL SCORE: 50</b>				

JUDGE'S NAME

JUDGE'S SIGNATURE

DATE

# Disorder Practicum Scorecard

NAME \_\_\_\_\_

MEMBER NUMBER \_\_\_\_\_

CHAPTER \_\_\_\_\_

STATE \_\_\_\_\_

TEAM NUMBER \_\_\_\_\_

		Member Answer	Possible Points	Member Score
1.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
2.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
3.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
4.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
5.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
6.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
7.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
8.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
9.	Classification #:		1	

		Member Answer	Possible Points	Member Score
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
10.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
11.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
12.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
13.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
14.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
15.	Classification #:		1	
	Identification #:		2	
	Chemical Control #:		1	
	Cultural/ Biological Control #:		1	
<b>TOTAL POINTS</b>			75	

**CLASSIFICATION:**

- 100 Diseases
- 101 Insects/ Pests / Mites
- 102 Nutritional/ Environmental

**IDENTIFICATION:**

- 200 Aphids

- 201 Black Leaf Spot
- 202 Botrytis – Grey Mold
- 203 Damping-off
- 204 Downy Mildew
- 205 Ethylene Damage
- 206 Fungus Gnats
- 207 Insufficient Watering
- 208 Iron Deficiency
- 209 Leaf Miner
- 210 Leafhopper
- 211 Mealybugs
- 212 Nitrogen Deficiency
- 213 Phosphorus Deficiency
- 214 Powdery Mildew
- 215 Root Rot
- 216 Rust
- 217 Scale
- 218 Shore Flies
- 219 Snails/ Slugs
- 220 Spider Mites
- 221 Stem Rot
- 222 Thrips
- 223 Tospovirus (INSV and TSWV)
- 224 Whiteflies

**CHEMICAL CONTROL:**

- 400 Fungicide
- 401 Insecticide

- 402 Miticide
- 403 Molluscicide
- 404 No Treatment Listed

**CULTURAL CONTROL:**

- 500 Apply Complete Fertilizer
- 501 Correct/ Adjust Temperature
- 502 Correct/ Adjust Watering
- 503 Ladybird Beetles
- 504 Nematodes
- 505 Parasitic Wasps
- 506 Predatory Mites
- 507 Reduce Relative Humidity
- 508 No Treatment Listed

# Pinching Plants Rubric

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NAME

MEMBER NUMBER

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CHAPTER

STATE

TEAM NUMBER

	Excellent	Good	Needs Improvement	Member Score
Selection of plant part to pinch	8-10	4-7	0-3	
Use of proper procedures in making pinches	8-10	4-7	0-3	
Made proper pinches	8-10	4-7	0-3	
Overall effect of making pinches	8-10	4-7	0-3	
Answered questions correctly	8-10	4-7	0-3	
<b>TOTAL SCORE: 50</b>				

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JUDGE'S NAME

JUDGE'S SIGNATURE

DATE

# Hazardous Situation Rubric

NAME

MEMBER NUMBER

CHAPTER

STATE

TEAM NUMBER

	Excellent	Good	Needs Improvement		Member Score
Utilize proper personal safety precautions	4-5	2-3	0-1	X 4	
Utilize proper safety procedures in clearing up the situation	4-5	2-3	0-1	X 5	
Proper disposal of problem materials	4-5	2-3	0-1	X 4	
Utilize proper follow-up procedures	8-10	4-7	0-3		
<b>TOTAL SCORE: 75</b>					

JUDGE'S NAME

JUDGE'S SIGNATURE

DATE

# Media Selling Practicum Rubric

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NAME

MEMBER NUMBER

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CHAPTER

STATE

TEAM NUMBER

	Excellent	Good	Needs Improvement	Member Score
Identified and appeal to target group	9-12 points	5-8 points	0-4 points	
Informed the consumer	7-9 points	4-6 points	0-3 points	
Creativity	7-9 points	4-6 points	0-3 points	
Easy to read or view	7-9 points	4-6 points	0-3 points	
Presented one idea	7-9 points	4-6 points	0-3 points	
Contained essential information	7-9 points	4-6 points	0-3 points	
Grammar, spelling, accuracy	7-9 points	4-6 points	0-3 points	
Proper use of space and format	7-9 points	4-6 points	0-3 points	
<b>TOTAL SCORE: 75</b>				

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JUDGE'S NAME

JUDGE'S SIGNATURE

DATE

# Team Activity Rubric

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NAME \_\_\_\_\_ MEMBER NUMBER \_\_\_\_\_

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CHAPTER \_\_\_\_\_ STATE \_\_\_\_\_ TEAM NUMBER \_\_\_\_\_

INDICATOR	Very strong evidence skill is present 5-4 points	Moderate evidence that skill is not present 3-2 points	Strong evidence skill is not present 1-0 points	Points Earned	Weight	Total Score
Established team leadership role	One member seemed to assume leadership and others cooperated.	One member seemed to assume leadership..	No leadership role(s) were established.		X 10	
Member participation in planning activity	All members participated in discussion before work began.	Limited member discussion occurred before work began.	No member discussion occurred before work began.		X 25	
Developed a work-able plan	Duties were assigned and all had equal parts.	Duties were assigned and all had near equal parts.	Duties were not assigned and participation varied.		X 25	
Membership responsibilities were outlined and assigned	Responsibilities were assigned with interaction between members.	Responsibilities were assigned with little interaction.	Responsibilities were not verbally assigned.		X 10	
Material was organized prior to commencing activity	Material was organized and distributed.	Most material was organized.	Material was left as presented until needed.		X 10	
Member participation in carrying out activity functions	All members participated with leadership provided.	All members participated.	One or more members had almost no participation.		X 20	
Followed proper procedures in carrying out activity	All activities resulted in completed product.	Most activities resulted in completed product.	Some activities resulted in completed product.		X 25	
Quality of activity product	Products exceed minimum industry standard.	Products meet minimum industry standards.	Products below industry standard.		X 35	

**TOTAL POINTS: 800**

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JUDGE'S NAME \_\_\_\_\_ JUDGE'S SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_