



Idaho Floriculture Handbook

Purpose

To stimulate the study of and interest in production and retailing of flowers, plants and foliage through the agricultural education curriculum.

Objectives

- To identify floriculture and bedding plant materials.
- To understand the biological and scientific principles and develop the skills underlying propagation, growth requirements, growing techniques, harvesting, marketing and maintenance of established floriculture plants.
- To understand principles and develop skills of floral design.
- To identify and select appropriate supplies and equipment for the flower shop and greenhouse.
- To understand and demonstrate interpersonal skills needed to attain successful employment in the floriculture industry.
- To develop those interpersonal skills prerequisite to effective participation in the floriculture industry.
- To identify the common tools and equipment used in the floriculture industry.

General Rules

1. A team will consist of four FFA members, with the top three individual scores counting toward team placing. No alternates will be allowed.
2. This State CDE will be held during the FFA State Leadership Conference.
3. Entry fees to cover the cost of hosting the event will be assessed.
4. Participants in need of special accommodations (disability or other health issues) must submit the Idaho State FFA Career Development Events Request for Special Accommodation Application found at the end of the General Rules and Regulations at least one month prior to the event.
5. National exams as reference materials will not utilize the most recent National Convention test items.
6. Members may participate in one event at a time. A member may not participate in overlapping CDEs during the Idaho FFA State CDE events in Moscow or State Leadership Conference in Twin Falls.

Format and Scoring

ROTATIONS

General knowledge – 30 minutes	Arrangement – 25 minutes
Problem Solving – 25 minutes	Corsage - 25 minutes
Plant ID and Tool ID – 25 minutes	Practicum 1 – 10 minutes
Practicum 2 – 10 minutes	

Material students need to provide

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

GENERAL KNOWLEDGE EXAMINATION – 250 POINTS

Fifty objective-type multiple-choice questions will be written that cover the areas of the floriculture industry reflected in the event objectives. 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 30 minutes to complete this phase of the event. Each answer has a value of five points. The contents of the exam will come from the previous five (5) years of General Knowledge Exams from the National FFA Floriculture Career Development Event. This will exclude the last National test due to release date.

PROBLEM-SOLVING/DECISION-MAKING –50 POINTS

Each participant will solve five problems related to the various aspects of the floriculture industry identified in the event objectives. A problem-solving activity is defined as:

“A mental or physical activity involving the gathering or searching of information and the use of a logical solution process using commonly accepted standards and available information to solve a problem specific to a particular area of floriculture production or retailing.”

Each question will describe the situation associated with or creating a problem and list four possible solutions. The participant must decide on the best possible solution to the question. All materials and information necessary to solve the question will be available to the participant as he or she solves the problem. Each participant will be allowed 25 minutes to complete this phase of the event. Each correct solution has a value of 10 points.

Sample Problem

Situation: You are the owner of the “Flower City” florist shop. You received an order for a floral arrangement to be delivered to one of your regular customers. You give the order to one of your employees and ask that it be ready by delivery time. When the employee brings the finished arrangement to you for packing and delivery, you notice a problem with the arrangement. The arrangement set before you is the arrangement made by the employee. You realize that the problem must be corrected before the arrangement can be delivered. What would you tell your employee to do to the arrangement to correct the problem?

Possible Solutions:

- Move smaller flowers to the top of the arrangement and larger flowers to the bottom of the arrangement.
- Add a focal point to the arrangement.
- Use some different plant materials to add texture to the arrangement.
- Change the color of the flowers to make the colors compatible.

IDENTIFICATION OF PLANT MATERIALS – 200 POINTS

Forty specimens from the Floriculture Plant Identification List (included with the scorecard) will be displayed for participants to identify by technical and common names. Each specimen will be designated by a number. Five 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. Plant material identification will be in the same 25-minute rotation with tool identification.

IDENTIFICATION OF EQUIPMENT – 50 POINTS

Ten equipment samples from the modified national equipment identification list will be displayed for participants to identify. A number will designate each sample. Five points will be awarded for each specimen that is correctly identified. Each participant will be allowed 25 minutes to complete the identification part of the event. Tool Identification will be in the same 25-minute rotation with plant material identification.

FLORAL ARRANGEMENT – 100 POINTS

Make a \$35 flower arrangement. The type of arrangement will be selected from the following list:

- Round Centerpiece
- Triangle (non-centerpiece)
- Horizontal

Each will be made using a 1/3 brick container.

Use the materials provided. Participants will be allowed 25 minutes to complete their arrangements (85 points) and itemized bills (15 points).

Participants will be provided the retail price of the flowers and foliage they will use in their arrangements by the event assistant at the beginning of the practicum. The markup will be built into the retail price of the flowers and foliage used in the arrangement. When the participant has determined the total arrangement cost, he or she has already 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. A 50 cent over/under with no penalty rule for the arrangement scorecard

Explanation of Floral Arrangement Terms

- **Category Interpretation (Design):** 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

MAKE AND PACKAGE A CORSAGE – 75 POINTS

Make and package a \$15 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. Participants should be knowledgeable and possess skills in the use of glue when making a corsage. Each participant will be allowed 25 minutes to complete the construction of the corsage and complete an itemized bill. Participants will be provided the retail price of flowers and foliage that they will use in their corsage 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. A 50 cent over/under with no penalty rule for the corsage scorecard. This practicum will be a part of the event every year.

PRACTICUMS – 150 POINTS

Each participant will complete the Floral Arrangement practicum, the Make and Package a Corsage practicum, Potting Plant Cuttings, and Asexual Propagation. Each participant will provide his or her own florist shears, knife, and pencils for this phase of the event.

The following information describes each practicum.

1. Potting Plant Cuttings (75 pts.)

Plant five rooted cuttings in the pot provided. (Each participant will be given 10 cuttings from which to select five; a 3-to-6-inch pot; a 1:1 soil mixture at the correct moisture level; and a marking pencil.) Ten minutes will be allowed for completion of this practicum, including the judging of the potted plant cuttings.

2. Asexual Propagation of Plants (75 pts.)

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 five cuttings from the plant before them and place them in rooting media. Ten minutes will be allowed for completion of this practicum including the judging of the participant's performance.

Floriculture Plant Identification List (by Scientific Name)

#	<i>Scientific Name</i>	<u>Common Name</u>	#	<i>Scientific Name</i>	<u>Common Name</u>
101	<i>Aechmea fasciata</i> cv.	Bromeliad	152	<i>Exacum affine</i>	Persian Violet
102	<i>Ageratum houstonianum</i>	Floss Flower	153	<i>Ficus benjamina</i> cv	Benjamin Fig
103	<i>Alocasia amazonica</i>	Amazon elephant ear	154	<i>Ficus elastica</i> cv	Rubber Plant
104	<i>Aloe vera</i>	Aloe plant	155	<i>Ficus lyrata</i>	Fiddle Leaf Fig
105	<i>Alstroemeria hybrid</i> cv.	Peruvian Lily	156	<i>Fragaria x ananassa</i> cv.	Strawberry Plant
106	<i>Anemone coronaria</i>	Wind Flower	157	<i>Freesia x hybrida</i>	Freesia
107	<i>Anethum graveolens</i> cv.	Dill	158	<i>Gardenia jasminoides</i>	Gardenia
108	<i>Angelonia hybrid</i> cv.	Angelonia	159	<i>Gerbera jamesonii</i>	Gerbera Daisy
109	<i>Anthurium x andraeanum</i> cv.	Flamingo Plant	160	<i>Gladiolus x hortulanus</i> cv.	Gladiolus
110	<i>Antirrhinum majus</i> cv.	Snapdragon	161	<i>Gomphrena hybrid</i> cv.	Globe Amaranths
111	<i>Aphelandra squarrosa</i> cv.	Zebra Plant	162	<i>Gypsophila elegans</i> cv.	Baby's Breath
112	<i>Araucaria heterophylla</i>	Norfolk Island Pine	163	<i>Hedera helix</i> cv.	English Ivy
113	<i>Asparagus densiflorus</i>	Fox Tail Fern	164	<i>Helianthus annuus</i>	Sunflower
114	<i>Aster Amellus</i>	Aster	165	<i>Hemerocallis</i> cv.	Daylily
115	<i>Astilbe hybrid</i> cv.	Astilbe	166	<i>Hibiscus</i> spp.	Hibiscus
116	<i>Begonia x semperflorens</i> – <i>cultorum</i>	Wax Begonia	167	<i>Hippeastrum hybrid</i> cv.	Amaryllis
117	<i>Begonia x tuberhybrida</i> cv.	Tuberous Begonia	168	<i>Hosta</i> cv.	Hosta Plantain Lily
118	<i>Caladium x hortulanum</i> cv.	Caladium	169	<i>Hoya carnosa</i>	Wax Plant
119	<i>Calathea insignis</i>	Rattlesnake plant	170	<i>Hyacinthus orientalis</i> cv.	Hyacinth
120	<i>Calibrachoa hybrid</i> cv.	Million Bells	171	<i>Hydrangea macrophylla</i>	Big Leaf Hydrangea
121	<i>Callistephus chinensis</i> cv.	China Aster	172	<i>Hypoestes phyllostachya</i>	Polka-Dot plant
122	<i>Campanula hybrid</i> cv.	Bell Flower	173	<i>Impatiens hawkeri</i>	New Guinea Impatiens
123	<i>Canna x generalis</i> cv.	Canna	174	<i>Impomoea batatas</i> cv.	Sweet potato vine
124	<i>Capsicum annuum</i>	Ornamental Pepper	175	<i>Iris x xiphium</i> cv.	Dutch Iris
125	<i>Celosia argentea</i> cv.	Cockscomb	176	<i>Justica brandegeana</i>	Shrimp Plant
126	<i>Centaurea cyanus</i>	Cornflower, Bachelor's Button	177	<i>Kalanchoe x blossfeldiana</i> cv.	Kalanchoe
127	<i>Chamaedorea elegans</i>	Parlor Palm	178	<i>Leucanthemum x superbum</i>	Shasta Daisy
128	<i>Chamelaucium uncinatum</i>	Waxflower	179	<i>Liatris spicata</i>	Blazing stars
129	<i>Cholorophytum comosum</i> cv.	Spider Plant	180	<i>Lilium hybrid</i> cv.	Asiatic or Oriental Lily
130	<i>Chrysanthemum x morifolium</i>	Chrysanthemum	181	<i>Limonium sinuatum</i>	Statice
131	<i>Clematis hybrid</i> cv.	Clematis	182	<i>Lobularia maritima</i>	Alyssum
132	<i>Codiaeum variegatum pictum</i>	Croton	183	<i>Mandevilla</i> spp.	Rock Trumpet
133	<i>Colocasia esculenta</i>	Taro	184	<i>Maranta leuconeura</i>	Prayer Plant
134	<i>Cordyline fruticosa</i>	Ti Plant	185	<i>Matthiola incana</i> cv.	Stock
135	<i>Crassula argentea</i>	Jade Plant	186	<i>Monstera deliciosa</i>	Split Leaf Philodendron
136	<i>Cycas revoluta</i> cv.	Sago Palm	187	<i>Narcissus hybrid</i> cv.	Daffodil or Narcissus
137	<i>Cyclamen x persicum</i> cv.	Cyclamen	188	<i>Nephrolepis exaltata</i> cv.	Boston Fern
138	<i>Cymbidium</i> cv.	Cymbidium Orchid	189	<i>Ocimum basilicum</i> cv.	Basil
139	<i>Cymbopogon</i> cv.	Lemongrass (herb)	190	<i>Opuntia</i> cv.	Cactus
140	<i>Dahlia hybrid</i> cv.	Dahlia	191	<i>Paeonia</i> cv.	Peony
141	<i>Delosperma</i>	Ice Plant	192	<i>Paphiopedilum hybrid</i> cv.	Ladyslipper Orchid
142	<i>Delphinium consolida</i> cv.	Larkspur	193	<i>Pelargonium peltatum</i> cv.	Ivy Geranium
143	<i>Dendrobium</i> cv.	Dendrobium Orchid	194	<i>Pelargonium x hortorum</i> cv.	Zonal Geranium
144	<i>Dianthus caryophyllus</i> cv.	Carnation	195	<i>Pentas hybrid</i> cv.	Pentas star flower
145	<i>Dracaena Marginata</i>	Red Edge Dracaena	196	<i>Peperomia</i> sp.	Peperomia
146	<i>Echinocactus</i> cv.	Barrel Cactus	197	<i>Petroselinum crispum</i> cv.	Parsley
147	<i>Epipremnum aureum</i> cv.	Golden Pothos	198	<i>Petunia x hybrida</i> cv.	Petunia
148	<i>Erica carnea</i> cv.	Winter Heath	199	<i>Phalaenopsis</i> cv.	Moth Orchid
149	<i>Eucalyptus polyanthemos</i>	Silver Dollar Eucalyptus	200	<i>Philodendron scandens oxycardium</i>	Heartleaf Philodendron
150	<i>Euphorbia pulcherrima</i> cv.	Poinsettia	201	<i>Pilea cadierei</i>	Aluminum Plant
151	<i>Eustoma grandiflorum</i>	Lisianthus Prairie gentian	202	<i>Portulaca oleracea</i> cv.	Portulaca/ Moss rose

203	<i>Primula malacoides cv.</i>	Primrose	217	<i>Solidago hybrid cv</i>	Solidago
204	<i>Protea sp.</i>	Protea	218	<i>Spathiphyllum</i>	Peace Lily
205	<i>Ranunculus hybrid cv.</i>	Ranunculus/ Buttercups	219	<i>Stephanotis floribunda</i>	Stephanotis
206	<i>Rhododendron simsii cv.</i>	Azalea	220	<i>Strelitzia reginae</i>	Bird of Paradise
207	<i>Rumohra adiantiformis</i>	Leatherleaf Fern	221	<i>Syngonium podophyllum</i>	Arrowhead plant
208	<i>Saintpaulia ionantha cv.</i>	African Violet	222	<i>Tagetes species cv.</i>	Marigold
209	<i>Salvia splendens cv.</i>	Salvia	223	<i>Tillandsia spp.</i>	Air Plant
210	<i>Sansevieria trifasciata cv.</i>	Snake Plant	224	<i>Tradescantia zebrine</i>	Inch Plant
211	<i>Schefflera arboricola</i>	Dwarf Schefflera	225	<i>Tulipa cv.</i>	Tulip
212	<i>Schlumbergera bridgesii</i>	Christmas Cactus	226	<i>Verbena hybrid cv.</i>	Verbena
213	<i>Sempervivum hybrid cv.</i>	Hens and Chicks	227	<i>Viola x wittrockiana cv.</i>	Pansy
214	<i>Senecio cineraria</i>	Dusty Miller	228	<i>Zantedeschia hybrid cv.</i>	Calla Lily
215	<i>Senecio rowleyanus</i>	String of Pearls	229	<i>Zinnia cv.</i>	Zinnia
216	<i>Solenostemon scutellarioides</i>	Coleus			

Floriculture Equipment and Supply Identification List

301	#100 Ribbon (satin, sheer, wired)
302	#3 Ribbon (satin, sheer, wired)
303	#40 Ribbon (satin, sheer, wired)
304	#9 Ribbon (satin, sheer, wired)
305	18 Gauge floral wire
306	28 Gauge floral wire
307	Anvil-and-blade pruner
308	Bouquet sleeve
309	Cardette
310	Chenille stem
311	Corsage box
312	Corsage pin
313	Corsage snips
314	Dry foam

315	Enclosure card
316	Fern greening pins
317	Floral adhesive
318	Floral foam
319	Floral knife
320	Floral preservative
321	Floral stem tape
322	Glass vase
323	Glue gun
324	Glue pan
325	Glue sticks
326	Hook-and-blade pruners (bypass pruners)
327	Nosegay holder
328	Pot covers

329	Ribbon shears
330	Rose and stem flower stripper
331	Sheet moss
332	Spanish moss
333	Sphagnum moss
334	Styrofoam
335	Sure-Stik cling
336	Tulle
337	Water picks
338	Water tubes
339	Waterproof container tape
340	Wire cutter
341	Wooden pick
342	Wrist corsage holder

Floriculture Plant Identification List (by Common Name)

#	<u>Scientific Name</u>	<u>Common Name</u>	#	<u>Scientific Name</u>	<u>Common Name</u>
208	<i>Saintpaulia ionantha cv.</i>	African Violet	155	<i>Ficus lyrata</i>	Fiddle Leaf Fig
223	<i>Tillandsia spp.</i>	Air Plant	109	<i>Anthurium x andraeanum cv.</i>	Flamingo Plant
104	<i>Aloe vera</i>	Aloe plant	102	<i>Ageratum houstonianum</i>	Floss Flower
201	<i>Pilea cadierei</i>	Aluminum Plant	113	<i>Asparagus densiflorus</i>	Fox Tail Fern
182	<i>Lobularia maritima</i>	Alyssum	157	<i>Freesia x hybrida</i>	Freesia
167	<i>Hippeastrum hybrid cv.</i>	Amaryllis	158	<i>Gardenia jasminoides</i>	Gardenia
103	<i>Alocasia amazonica</i>	Amazon elephant ear	159	<i>Gerbera jamesonii</i>	Gerbera Daisy
108	<i>Angelonia hybrid cv.</i>	Angelonia	160	<i>Gladiolus x hortulanus cv.</i>	Gladiolus
221	<i>Syngonium podophyllum</i>	Arrowhead plant	161	<i>Gomphrena hybrid cv.</i>	Globe Amaranths
180	<i>Lilium hybrid cv.</i>	Asiatic or Oriental Lily	147	<i>Epipremnum aureum cv.</i>	Golden Pothos
114	<i>Aster Amellus</i>	Aster	200	<i>Philodendron scandens oxycardium</i>	Heartleaf Philodendron
115	<i>Astilbe hybrid cv.</i>	Astilbe	213	<i>Sempervivum hybrid cv.</i>	Hens and Chicks
206	<i>Rhododendron simsii cv.</i>	Azalea	166	<i>Hibiscus spp.</i>	Hibiscus
162	<i>Gypsophila elegans cv.</i>	Baby's Breath	168	<i>Hosta cv.</i>	Hosta Plantain Lily
146	<i>Echinocactus cv.</i>	Barrel Cactus	170	<i>Hyacinthus orientalis cv.</i>	Hyacinth
189	<i>Ocimum basilicum cv.</i>	Basil	141	<i>Delosperma</i>	Ice Plant
122	<i>Campanula hybrid cv.</i>	Bell Flower	224	<i>Tradescantia zebrine</i>	Inch Plant
153	<i>Ficus benjamina cv</i>	Benjamin Fig	193	<i>Pelargonium peltatum cv.</i>	Ivy Geranium
171	<i>Hydrangea macrophylla</i>	Big Leaf Hydrangea	135	<i>Crassula argentea</i>	Jade Plant
220	<i>Strelitzia reginae</i>	Bird of Paradise	177	<i>Kalanchoe x blossfeldiana cv.</i>	Kalanchoe
179	<i>Liatris spicata</i>	Blazing stars	192	<i>Paphiopedilum hybrid cv.</i>	Ladyslipper Orchid
188	<i>Nephrolepis exaltata cv.</i>	Boston Fern	142	<i>Delphinium consolida cv.</i>	Larkspur
101	<i>Aechmea fasciata cv.</i>	Bromeliad	207	<i>Rumohra adiantiformis</i>	Leatherleaf Fern
190	<i>Opuntia cv.</i>	Cactus	139	<i>Cymbopogon cv.</i>	Lemongrass (herb)
118	<i>Caladium x hortulanum cv.</i>	Caladium	151	<i>Eustoma grandiflorum</i>	Lisianthus Prairie gentian
228	<i>Zantedeschia hybrid cv.</i>	Calla Lily	222	<i>Tagetes species cv.</i>	Marigold
123	<i>Canna x generalis cv.</i>	Canna	120	<i>Calibrachoa hybrid cv.</i>	Million Bells
144	<i>Dianthus caryophyllus cv.</i>	Carnation	199	<i>Phalaenopsis cv.</i>	Moth Orchid
121	<i>Callistephus chinensis cv.</i>	China Aster	173	<i>Impatiens hawkeri</i>	New Guinea Impatiens
212	<i>Schlumbergera bridgesii</i>	Christmas Cactus	112	<i>Araucaria heterophylla</i>	Norfolk Island Pine
130	<i>Chrysanthemum x morifolium</i>	Chrysanthemum	124	<i>Capsicum annuum</i>	Ornamental Pepper
131	<i>Clematis hybrid cv.</i>	Clematis	227	<i>Viola x wittrockiana cv.</i>	Pansy
125	<i>Celosia argentea cv.</i>	Cockscomb	127	<i>Chamaedorea elegans</i>	Parlor Palm
216	<i>Solenostemon scutellarioides</i>	Coleus	197	<i>Petroselinum crispum cv.</i>	Parsley
126	<i>Centaurea cyanus</i>	Cornflower, Bachelor's Button	218	<i>Spathiphyllum</i>	Peace Lily
132	<i>Codiaeum variegatum pictum</i>	Croton	195	<i>Pentas hybrid cv.</i>	Pentas star flower
137	<i>Cyclamen x persicum cv.</i>	Cyclamen	191	<i>Paonia cv.</i>	Peony
138	<i>Cymbidium cv.</i>	Cymbidium Orchid	196	<i>Peperomia sp.</i>	Peperomia
187	<i>Narcissus hybrid cv.</i>	Daffodil or Narcissus	152	<i>Exacum affine</i>	Persian Violet
140	<i>Dahlia hybrid cv.</i>	Dahlia	105	<i>Alstroemeria hybrid cv.</i>	Peruvian Lily
165	<i>Hemerocallis cv.</i>	Daylily	198	<i>Petunia x hybrida cv.</i>	Petunia
143	<i>Dendrobium cv.</i>	Dendrobium Orchid	150	<i>Euphorbia pulcherrima cv.</i>	Poinsettia
107	<i>Anethum graveolens cv.</i>	Dill	172	<i>Hypoestes phyllostachya</i>	Polka-Dot plant
214	<i>Senecio cineraria</i>	Dusty Miller	202	<i>Portulaca oleracea cv.</i>	Portulaca/ Moss rose
175	<i>Iris x xiphium cv.</i>	Dutch Iris	184	<i>Maranta leuconeura</i>	Prayer Plant
211	<i>Schefflera arboricola</i>	Dwarf Schefflera	203	<i>Primula malacoides cv.</i>	Primrose
163	<i>Hedera helix cv.</i>	English Ivy	204	<i>Protea sp.</i>	Protea

205	<i>Ranunculus hybrid cv.</i>	Ranunculus/ Buttercups	185	<i>Matthiola incana cv.</i>	Stock
119	<i>Calathea insignis</i>	Rattlesnake plant	156	<i>Fragaria x ananassa cv.</i>	Strawberry Plant
145	<i>Dracaena Marginata</i>	Red Edge Dracaena	215	<i>Senecio rowleyanus</i>	String of Pearls
183	<i>Mandevilla spp.</i>	Rock Trumpet	164	<i>Helianthus annuus</i>	Sunflower
154	<i>Ficus elastica cv</i>	Rubber Plant	174	<i>Impomoea batatas cv.</i>	Sweet potato vine
136	<i>Cycas revoluta cv.</i>	Sago Palm	133	<i>Colocasia esculenta</i>	Taro
209	<i>Salvia splendens cv.</i>	Salvia	134	<i>Cordyline fruticosa</i>	Ti Plant
178	<i>Leucanthemum x superbum</i>	Shasta Daisy	117	<i>Begonia x tuberhybrida cv.</i>	Tuberous Begonia
176	<i>Justica brandegeana</i>	Shrimp Plant	225	<i>Tulipa cv.</i>	Tulip
149	<i>Eucalyptus polyanthemos</i>	Silver Dollar Eucalyptus	226	<i>Verbena hybrid cv.</i>	Verbena
210	<i>Sansevieria trifasciata cv.</i>	Snake Plant	116	<i>Begonia x semperflorens – cultorum</i>	Wax Begonia
110	<i>Antirrhinum majus cv.</i>	Snapdragon	169	<i>Hoya carnosa</i>	Wax Plant
217	<i>Solidago hybrid cv</i>	Solidago	128	<i>Chamelaucium uncinatum</i>	Waxflower
129	<i>Cholorophytum comosum cv.</i>	Spider Plant	106	<i>Anemone coronaria</i>	Wind Flower
186	<i>Monstera deliciosa</i>	Split Leaf Philodendron	148	<i>Erica carnea cv.</i>	Winter Heath
181	<i>Limonium sinuatum</i>	Statice	111	<i>Aphelandra squarrosa cv.</i>	Zebra Plant
219	<i>Stephanotis floribunda</i>	Stephanotis	229	<i>Zinnia cv.</i>	Zinnia
			194	<i>Pelargonium x hortorum cv.</i>	Zonal Geranium

Floriculture Equipment and Supply Identification List

301	#100 Ribbon (satin, sheer, wired)
302	#3 Ribbon (satin, sheer, wired)
303	#40 Ribbon (satin, sheer, wired)
304	#9 Ribbon (satin, sheer, wired)
305	18 Gauge floral wire
306	28 Gauge floral wire
307	Anvil-and-blade pruner
308	Bouquet sleeve
309	Cardette
310	Chenille stem
311	Corsage box
312	Corsage pin
313	Corsage snips
314	Dry foam

315	Enclosure card
316	Fern greening pins
317	Floral adhesive
318	Floral foam
319	Floral knife
320	Floral preservative
321	Floral stem tape
322	Glass vase
323	Glue gun
324	Glue pan
325	Glue sticks
326	Hook-and-blade pruners (bypass pruners)
327	Nosegay holder
328	Pot covers

329	Ribbon shears
330	Rose and stem flower stripper
331	Sheet moss
332	Spanish moss
333	Sphagnum moss
334	Styrofoam
335	Sure-Stik cling
336	Tulle
337	Water picks
338	Water tubes
339	Waterproof container tape
340	Wire cutter
341	Wooden pick
342	Wrist corsage holder

Floral Arrangement Practicum Rubric

(100 POINTS)

Name	Member Number	Chapter/State	Team Number
Judge Name	Judge's Signature	Date	

	Excellent	Good	Needs Improvement	Member Score
Arrangement	85			
Category interpretation	5-4 points Design follows given scenario within provided parameters and correlates to the appropriate style, shape and design	3-2 points Design slightly followed given scenario but is somewhat lacking in appropriate style, shape, or design	1-0 points Design does not follow given scenario and/or lacks in following the given style, shape, or design	
Balance	10-7 points Design is both visually and physically balanced	6-4 points Design is slightly off balanced	3-0 points Design is not balanced visually or physically	
Creativity	10-7 points Design expresses advanced creative ability and advanced design techniques	6-4 points Design expresses some creative ability and minimal advanced design techniques	3-0 points Design lacks creative ability and Demonstrates limited design techniques	
Depth	10-7 points Placement of materials at different levels is evenly distributed throughout	6-4 points Placement of materials are somewhat distributed evenly	3-0 points Placement of items are not distributed evenly	
Color	10-7 points Color is used evenly/harmoniously throughout	6-4 points Color is used somewhat correctly	3-0 points Color is not used correctly	
Focal emphasis	10-7 points Design has one area of design that attracts the eye	6-4 points Design somewhat has a clear focal point	3-0 points Design does not have a clear focal point	
Line / Rhythm	10-7 points Design has a clear sense of movement created visually by the placement of floral materials	6-4 points Design has a somewhat clear sense of movement created visually by the placement of floral materials	3-0 points Design has no clear sense of movement created visually by the placement of floral materials	
Mechanics	10-7 points Techniques used to keep floral material secure and stable are hidden or done neatly	6-4 points Techniques used to keep floral material secure and stable are somewhat hidden or done neatly	3-0 points Techniques used to keep floral material secure and stable are not hidden or done neatly	
Scale / Proportion	5-4 points Design is the correct size based on container given	3-2 points Design is slightly out of proportion	3-0 points Design is not in proportion with container given	
Unity	5-4 points All principles of designs are present and executed well	3-2 points Some principles of design are executed well	1-0 points None or few principles of design are executed well	
ITEMIZED LIST OF COSTS	15			
Bill of Sale Completion	5-4 points Bill of Sale is completed entirely with a complete list of all items used and totaled	3-2 points Bill of Sale is not entirely complete or missing some items used in the design	1-0 point Bill of Sale is missing a lot of detail and/or missing several items used in the design	
Individual Pricing and Quantity Used	5-4 points All items used in the design are individually listed with correct individual price and quantity totally accurately	3-2 points Some items added incorrectly, or quantity used listed incorrectly.	1-0 point Significant number of items added or listed incorrectly	
Total Bill of Sale Pricing Accuracy	5-4 points Overall bill is legible with labor calculated correctly, and total price is listed accurately within +/- \$0.50 of \$35.00	3-2 points Overall bill includes minor errors, includes parts that are difficult to read or final price slightly off target goal of \$35.00	1-0 points Overall bill includes major errors, difficult to read, or well off target goal of \$35.00.	
TOTAL SCORE (100 points possible)				

Floral Arrangement Itemized List of Costs

NAME			MEMBER NUMBER
CHAPTER		STATE	TEAM NUMBER

Quantity	FLOWERS USED	Unit Cost	Total
Quantity	FOLIAGE USED	Unit Cost	Total
TOTAL FLOWER COST			
TOTAL FOLIAGE COST			

Total Flower Cost	
Total Foliage Cost	
Hydro-foam	
Container Cost	
TOTAL ARRANGEMENT COST*	

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. A 50 cent over/under with no penalty rule for the floral arrangement scorecard.

Making and Packing a Corsage Rubric

75 POINTS

Name	Member Number	Chapter/State	Team Number	
Judge Name	Judge's Signature	Date		
	Excellent	Good	Needs Improvement	Member Score
Mechanical Application	15-11 points Techniques used to keep floral material secure and stable are hidden or done neatly	10-6 points Techniques used to keep floral material secure and stable are somewhat hidden or done neatly	5-0 points Techniques used to keep floral material secure and stable are not hidden or done neatly	
Color	10-7 points Color is used evenly/harmoniously throughout	6-4 points Color is used somewhat correctly	3-0 points Color is not used correctly	
Creativity	15-11 points Design expresses a high level of creative ability and advanced design techniques.	10-6 points Design expresses some creative ability and minimal advanced design techniques	3-0 points Design lacks creative ability and demonstrated limited design techniques	
Balance	10-7 points Design is physically and visually balanced	6-4 points Design is slightly off balance	3-0 points Design does not follow the principles of design regarding balance	
Design & Category Interpretation	5-4 points Design follows scenario given for an overall cohesive design	3-2 points Design somewhat follows scenario given and overall design is somewhat cohesive	1-0 points Design does not follow given scenario	
Bill of Sale Completion	10-7 points Bill of Sale is completed entirely with a complete list of all items used	8-5 points Bill of Sale is not entirely complete or missing some items used in the design	4-0 points Bill of Sale is missing a lot of detail and/or missing several items used in the design	
Pricing Accuracy (accuracy of pricing identification)	10-7 points All items used in the design are listed with correct price, totally accurately, labor calculated corrected, within 50 cents up or down of \$15.00	6-4 points Some items added incorrectly and/or final price slightly off target goal of \$15.00	3-0 points Significant number of items added incorrectly or way off target goal of \$15.00.	
TOTAL SCORE (75 POINTS POSSIBLE)				

Corsage Itemized List of Costs

NAME		MEMBER NUMBER	
CHAPTER	STATE	TEAM NUMBER	

Quantity	FLOWER/FOLIAGE	Unit Cost	Total
TOTAL FLOWER/FOLIAGE MATERIAL COST			

Quantity	MATERIAL USED	Unit Cost	Total
TOTAL HARD GOODS COST			

Total Plant Material Cost	
Total Hard Goods Cost	
Container Cost	
Sub Total	
TOTAL ARRANGEMENT COST*	

Participants will be provided the retail price of flowers and foliage that they will use in their corsage 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. A 50 cent over/under with no penalty rule for the corsage scorecard.

Asexual Plant Propagation Rubric

(75 POINTS)

Name	Member Number	Chapter/State	Team Number
Judge Name	Judge's Signature	Date	

	Excellent	Good	Needs Improvement	Member Score
Selection of cuttings	13-8 points Small uniform terminal shoot cuttings	7-4 points Used some cuttings of the same size and type	3-0 point too large, nonterminal shoots, or not uniform in size	
Making cuttings	12-7 points Straight, flush even cut of the basal end	6-4 points Some cuttings cut properly and some incorrectly cut	3-0 points basal end cut at angle or damaged	
Preparation of cuttings for sticking in growing media	10-7 points Selected/ prepared cuttings that did not require further preparation	6-4 points Selected cuttings that required removal of damaged and/or unneeded foliage	3-0 points left damaged and/or unnecessary foliage on plant	
Use of rooting hormone	10-7 points Poured correct amount of rooting hormone into separate container, applied hormone & tapped off excess amount	6-4 points Too much or too little put in separate container, applied correctly but did not tap off extra hormone	3-0 point applied directly from source container and/or did not use rooting hormone	
Selection of growing media	10-7 points Select best rooting medium for optimum rooting	6-4 points Select moderate but not best choice for optimum rooting	3-0 points selected incorrect rooting medium	
Sticking of cuttings in growing media	10-7 points Creating a dibble in media prior to placing cutting, placing at proper depth, firming media correctly	6-4 points Correctly demonstrated at least 1 or 2 of the correct principles	3-0 points no prior hole made, planted too deep, or left unstable	
Cuttings labeled correctly	10-7 points Labeled with date propagated, plant name, and cultivar	6-4 points Labeled with some but not all information required	3-0 point no label present or labeled with incorrect information	
		TOTAL		
		(75 POINTS POSSIBLE)		

Potting of Young Plants Practicum Rubric

(75 POINTS)

Name	Member Number	Chapter	Team Number	
Judge Name	Judge's Signature	Date		
	Excellent	Good	Needs Improvement	Member Score
Potting Process				
Selection of plugs or liners	10-7 points Plugs/liners are uniform in size and shape, correct number selected based on pot size provided	6-4 points Plugs/liners are somewhat uniform in size and shape, just slightly off in selecting the correct number	3-0 points Plugs/liners are not uniform in size and shape, correct number not selected based on pot size provided	
Proper planting depth	12-7 points Hole is made prior to placing plant in soil, the entire root system is covered, leaving proper stem length visible	6-4 points minor amount of roots are showing, planted slightly too deep	3-0 points A large amount of roots are showing or plant stem is covered with soil	
Labeling of plant/pot	10-7 points Labeled with date planted, plant name, and cultivar	6-4 points Labeled with some but not all information required	3-0 points no label present or labeled with incorrect information	
Correct growing medium level in pot	10-7 points Growing media is filled to the inner lip of the pot, leaving enough room to water the plant	6-4 points Growing media is filled slightly too high or too low	3-0 points Growing media is left very low or completely fills up the pot	
Plug or liner arrangement and angle	10-7 points Plugs/Liners evenly spaced for pot size given and plugs/liners planted in upright position	6-4 points plugs/liners planted slightly too close or too far apart, planting slightly tilting	3-0 points Plugs/liners not spaced corrected and not planted upright	
Firmness of growing medium	10-7 points After planting, growing media is tapped/ pressed firmly around each plant leaving the plant upright	6-4 points Growing media is left slightly loose or left slightly too firm restricting plant growth	3-0 points Growing media is not firmed after planting or left entirely too firm restricting plant growth	
General appearance (free from handling damage)	13-8 points Final product presented to the judge with plants upright, pot clean, and in sellable condition	7-4 points Final product presented to the judge in slightly sellable condition	3-0 points Final product presented to judge in non-sellable condition	
		TOTAL		
		(75 POINTS POSSIBLE)		

Floriculture CDE Plant Identification and Equipment Scorecards

(200 points)

Directions: Identify plant specimens by matching the correct plant number from list provided to the sample spaces below. Bubble the correct sample identification number next to the correct number on the official scorecard.

NAME _____

Chapter _____

1.	21.	
2.	22.	
3.	23.	
4.	24.	
5.	25.	
6.	26.	
7.	27.	
8.	28.	
9.	29.	
10.	30.	
11.	31.	
12.	32.	
13.	33.	
14.	34.	
15.	35.	
16.	36.	
17.	37.	
18.	38.	
19.	39.	
20.	40.	
SCORE:		

Equipment Identification (50 points)

Place the correct equipment material number from the provided list next to the sample number below.

1.	5.	8.
2.	6.	9.
3.	7.	10.
4.	SCORE:	