Floriculture CDE 2026

West Virginia

Purpose

The National 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 that are delivered through the agricultural 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 areas:

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

Objectives

- Identify plants, plant materials, supplies and equipment utilized in the floriculture industry.
- Demonstrate an understanding of the biological and scientific principles of plant growth and development. 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 elements and principles of design and develop related skills.
- Evaluate marketable floral products for quality and cultural perfection for use in the retail floral industry.
- 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.
- Understand the operation, management and maintenance of 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 the total team score.
- It is highly recommended that participants wear FFA Official Dress for this event. Participants may also bring an apron and/or a tool belt and towels. • 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.
- 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:

- Clean clipboard, free of notes.
- Two sharpened No. 2 pencils.
- Floral cutters/clippers.
- Ribbon shears.
- Wire cutters.
- Calculator — Should be battery operated, non-programmable and non-scientific (basic five function only). No other calculators can be used during the event.
- All references to time limits are approximate. The committee reserves the right to adjust to the practicum and anticipated skill of the students

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 to test all areas of the floriculture industry as reflected in the event objectives including flowers and material from the wholesaler and how they are handled, stored, and used in the flower shop; knowledge of floral design (arrangement) and marketing of floral products from the floral shop as well as 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.

Test questions will come from the last five years of available National Floriculture CDE Tests. Each year the latest test will be added and the oldest test removed from the pool of questions to be used. National exams can be accessed at FFA.org

Problem-Solving/Decision-Making (200 points)

Each participant will solve 10 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 or 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 (200 points)-Each participant will complete two annual practicums:Floral arrangement & Growing procedures

Floral Arrangement (100 points)

Make a $55 retail priced floral arrangement in compliance with the scenario provided. (The $55 cost will include tax as well as retail markup for fresh and hard goods 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 30 minutes to complete their arrangements. The event assistant at the beginning of the practicum will provide participants with the retail price of the flowers and foliage that they will use in their arrangements. The participant will determine the total arrangement cost using the pricing form provided plus 20% labor on their design. 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
Color: harmonious use of color

Growing Procedures (100 points)

One of the three activities listed below will be demonstrated on an annual basis. Ten minutes will be allowed for this section including questions from the judges. Seven (7) minutes to complete the assigned task, 1 minute for judges' questions, and 2 minutes for judges scoring.

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; and ID stake and a marking pencil. Scoring criteria are presented on the Potting of Young Plants Practicum Rubric, 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 the correct media, best for rooting. Participants should sanitize all equipment and use it appropriately in a safe manner. Scoring criteria are presented on the Asexual Plant Propagation Rubric, which will be recorded by a judge.

PINCHING PLANTS - A plant will be placed before each participant. Participants will be judged on the procedures they follow in pinching the plant in compliance with the scenario provided. Scoring criteria are presented on the Pinching Plants Rubric, which will be recorded by a judge.

Rotational Practicums (75 Points)

In addition to the two annual practicums, ONE practicum will be selected from the list below for each noted year.

MAKE AND PACKAGE A CORSAGE (75 POINTS)

Each participant will make and package a $25 retail priced corsage including 20% labor. The type of corsage and information about the corsage will be provided to the participants through a given scenario at the beginning of the practicum by the event assistant in charge. All plant and non-plant materials needed to construct and package the corsage will be provided. The selection of materials should be combined to create a floral display according to the acceptable retail purposes, using appropriate elements and principles of design. 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 Rubric, 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 must then 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 (15) 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 Disorder

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

Diseases

- Botrytis – Gray mold
- Damping-off
- Downy mildew
- Leaf spot (Black)
- Powdery mildew
- Root rot
- Rust
- Stem rot
- Tospovirus (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 Rubric, which will be recorded by a judge.

Scoring

Phase	Individual Points	Team Points
Plant and Equipment Identification	200	800
General knowledge	200	800
Problem solving	200	800
Annual practicums - 100 points each * Floral arrangement * Growing procedures	200	800
Rotational practicums – 1 selected * Make and Package a Corsage * Identifying/Controlling Plant Disorders * Handling a Hazardous Situation	75	300
TOTAL	875	3,500

TIEBREAKERS

Individual

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

1. Written exam
2. Floral arrangement practicum

Team

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

1. Plant and equipment identification
2. Total score for Floral Arrangement Practicum

Awards

Awards will be presented at an awards ceremony to individuals and/or teams based upon their rankings.

Floriculture Plant Identification List

No.	Botanical Name	Common Name
101	Aechmea fasciata cv.	Bromeliad
102	Ageratum houstonianum	Floss Flower
103	Alocasia amazonica	Amazon elephant ear
104	Aloe vera	Aloe plant
105	Alstroemeria hybrid cv.	Peruvian Lily
106	Anemone coronaria	Wind Flower
107	Anethum graveolens cv.	Dill
108	Angelonia hybrid cv.	Angelonia
109	Anthurium x andraeanum cv.	Flamingo Plant
110	Antirrhinum majus cv.	Snapdragon
111	Aphelandra squarrosa cv.	Zebra Plant
112	Araucaria heterophylla	Norfolk Island Pine
113	Asparagus densiflorus	Fox Tail Fern
114	Aster Amellus	Aster
115	Astilbe hybrid cv.	Astilbe
116	Begonia x semperflorens – cultorum	Wax Begonia
117	Begonia x tuberhybrida cv.	Tuberous Begonia
118	Caladium x hortulanum cv.	Caladium
119	Calathea insignis	Rattlesnake plant
120	Calibrachoa hybrid cv.	Million Bells
121	Callistephus chinensis cv.	China Aster
122	Campanula hybrid cv.	Bell Flower
123	Canna x generalis cv.	Canna
124	Capsicum annuum	Ornamental Pepper
125	Celosia argentea cv.	Cockscomb
126	Centaurea cyanus	Cornflower, Bachelor's Button
127	Chamaedorea elegans	Parlor Palm
128	Chamelaucium uncinatum	Waxflower
129	Cholorophytum comosum cv.	Spider Plant
130	Chrysanthemum x morifolium	Chrysanthemum
131	Clematis hybrid cv.	Clematis
132	Codiaeum variegatum pictum	Croton
133	Colocasia esculenta	Taro
134	Cordyline fruticosa	Ti Plant
135	Crassula argentea	Jade Plant
165	Hemerocallis cv.	Daylily
166	Hibiscus spp.	Hibiscus
167	Hippeastrum hybrid cv.	Amaryllis
168	Hosta cv.	Hosta Plantain Lily
169	Hoya carnosa	Wax Plant
170	Hyacinthus orientalis cv.	Hyacinth
171	Hydrangea macrophylla	Big Leaf Hydrangea
172	Hypoestes phyllostachya	Polka-Dot plant
173	Impatiens hawkeri	New Guinea Impatiens
174	Impomoea batatas cv.	Sweet potato vine
175	Iris x xiphium cv.	Dutch Iris
176	Justica brandegeana	Shrimp Plant
177	Kalanchoe x blossfeldiana cv.	Kalanchoe
178	Leucanthemum x superbum	Shasta Daisy
179	Liatris spicata	Blazing stars
180	Lilium hybrid cv.	Asiatic or Oriental Lily
181	Limonium sinuatum	Statice
182	Lobularia maritima	Alyssum
183	Mandevilla spp.	Rock Trumpet
184	Maranta leuconeura	Prayer Plant
185	Matthiola incana cv.	Stock
186	Monstera deliciosa	Split Leaf Philodendron
187	Narcissus hybrid cv.	Daffodil or Narcissus
188	Nephrolepis exaltata cv.	Boston Fern
189	Ocimum basilicum cv.	Basil
190	Opuntia cv.	Cactus
191	Paeonia cv.	Peony
192	Paphiopedilum hybrid cv.	Ladyslipper Orchid
193	Pelargonium peltatum cv.	Ivy Geranium
194	Pelargonium x hortorum cv.	Zonal Geranium
195	Pentas hybrid cv.	Pentas star flower
196	Peperomia sp.	Peperomia
197	Petroselinum crispum cv.	Parsley
198	Petunia x hybrida cv.	Petunia
199	Phalaenopsis cv.	Moth Orchid
200	Philodendron scandens oxycardium	Heartleaf Philodendron

136	Cycas revoluta cv.	Sago Palm
137	Cyclamen x persicum cv.	Cyclamen
138	Cymbidium cv.	Cymbidium Orchid
139	Cymbopogon cv.	Lemongrass (herb)
140	Dahlia hybrid cv.	Dahlia
141	Delosperma	Ice Plant
142	Delphinium consolida cv.	Larkspur
143	Dendrobium cv.	Dendrobium Orchid
144	Dianthus caryophyllus cv.	Carnation
145	Dracaena Marginata	Red Edge Dracaena
146	Echinocactus cv.	Barrel Cactus
147	Epipremnum aureum cv.	Golden Pothos
148	Erica carnea cv.	Winter Heath
149	Eucalyptus polyanthemos	Silver Dollar Eucalyptus
150	Euphorbia pulcherrima cv.	Poinsettia
151	Eustoma grandiflorum	Lisianthus Prairie gentian
152	Exacum affine	Persian Violet
153	Ficus benjamina cv	Benjamin Fig
154	Ficus elastica cv	Rubber Plant
155	Ficus lyrata	Fiddle Leaf Fig
156	Fragaria x ananassa cv.	Strawberry Plant
157	Freesia x hybrida	Freesia
158	Gardenia jasminoides	Gardenia
159	Gerbera jamesonii	Gerbera Daisy
160	Gladiolus x hortulanus cv.	Gladiolus
161	Gomphrena hybrid cv.	Globe Amaranths
162	Gypsophila elegans cv.	Baby's Breath
163	Hedera helix cv.	English Ivy
164	Helianthus annuus	Sunflower
201	Pilea cadierei	Aluminum Plant
202	Portulaca oleracea cv.	Portulaca/ Moss rose
203	Primula malacoides cv.	Primrose
204	Protea sp.	Protea
205	Ranunculus hybrid cv.	Ranunculus/ Buttercups
206	Rhododendron simsii cv.	Azalea
207	Rumohra adiantiformis	Leatherleaf Fern
208	Saintpaulia ionantha cv.	African Violet
209	Salvia splendens cv.	Salvia
210	Sansevieria trifasciata cv.	Snake Plant
211	Schefflera arboricola	Dwarf Schefflera
212	Schlumbergera bridgesii	Christmas Cactus
213	Sempervivum hybrid cv.	Hens and Chicks
214	Senecio cineraria	Dusty Miller
215	Senecio rowleyanus	String of Pearls
216	Solenostemon scutellarioides	Coleus
217	Solidago hybrid cv	Solidago
218	Spathiphyllum	Peace Lily
219	Stephanotis floribunda	Stephanotis
220	Strelitzia reginae	Bird of Paradise
221	Syngonium podophyllum	Arrowhead plant
222	Tagetes species cv.	Marigold
223	Tillandsia spp.	Air Plant
224	Tradescantia zebrine	Inch Plant
225	Tulipa cv.	Tulip
226	Verbena hybrid cv.	Verbena
227	Viola x wittrockiana cv.	Pansy
228	Zantedeschia hybrid cv.	Calla Lily
229	Zinnia cv.	Zinnia

Floriculture Tool Identification List

No.	Item
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	Backflow preventer
309	Bouquet sleeve
310	Bulb planter
311	Cardette
312	Cell pack containers
313	Ceramic container
314	Chemical resistant gloves
315	Chenille stem
316	Coconut coir
317	Compressed air sprayer
318	Corsage box
319	Corsage pin
320	Corsage snips
321	Drip emitter, irrigation
322	Dry foam
323	Dust mask
324	Duster
325	Ellepot propagation cubes
326	Enclosure card
327	Fern greening pins
328	Fertilizer injectors
329	Floral adhesive
330	Floral foam
331	Floral knife
332	Floral preservative
333	Floral stem tape
334	Fogger
335	Gas mask
336	Glass vase
337	Glue gun
338	Glue pan
339	Glue sticks
340	Granular fertilizer
341	Greenhouse thermostat
342	Hanging basket
343	Hearing protection
344	Hook-and-blade pruners (bypass pruners)
345	Hose punch
346	Hose repair coupling
347	Hose-end repair fitting
348	Hose-end sprayer
349	Hose-end washer
350	Impulse sprinkler
351	Drip Irrigation tape
352	Irrigation timer
353	Mist nozzle (mist bed)
354	Nosegay holder
355	Nursery container
356	Oscillating sprinkler
357	Peat moss
358	Peat pots
359	Pest strips
360	pH testing meter
361	Polyethylene film
362	Polyethylene pipe
363	Pot covers
364	Propagation mat
365	Propagation trays
366	PVC (polyvinyl chloride) pipe
367	PVC pipe cutter
368	Resin-coated fertilizer
369	Respirator
370	Ribbon shears
371	Rice hulls
372	Rockwool propagation cubes
373	Rose and stem flower stripper
374	Safety goggles
375	Sand
376	Scoop shovel
377	Shade fabric
378	Sharpening stone
379	Sheet moss
380	Siphon injector
381	Soil moisture meter
382	Solenoid valve
383	Spaghetti tubing (1/4" diameter or less)
384	Spanish moss
385	Sphagnum moss
386	Spray suit
387	Square point (flat) shovel
388	Styrofoam
389	Surestik cling
390	Tulle
391	Vermiculite
392	Water breaker
393	Water picks
394	Water soluble fertilizer
395	Water tubes
396	Waterproof container tape
397	Wire cutter
398	Wooden pick
399	Wrist corsage holder

Floral Arrangement Practicum Rubric

100 POINTS

Name	Member Number	Chapter/State	Team Number

Evaluator Name	Evaluator's Signature	Date

	Excellent 7-10 points	Good 4-6 points	Needs Improvement 0-3 points	Member Score
Category interpretation	Design follows given scenario within provided parameters and correlates to the appropriate style, shape and design	Design slightly followed given scenario but is somewhat lacking in appropriate style, shape, or design	Design does not follow given scenario and/or lacks in following the given style, shape, or design	
Balance	Design is both visually and physically balanced	Design is slightly off balanced	Design is not balanced visually or physically	
Creativity	Design expresses advanced creative ability and advanced design techniques	Design expresses some creative ability and minimal advanced design techniques	Design lacks creative ability and demonstrates limited design techniques	
Depth	Placement of materials at different levels is evenly distributed throughout	Placement of materials are somewhat distributed evenly	Placement of items are not distributed evenly	
Color	Color is used evenly/harmoniously throughout	Color is used somewhat correctly	Color is not used correctly	
Focal emphasis	Design has one area of design that attracts the eye	Design somewhat has a clear focal point	Design does not have a clear focal point	
Line / Rhythm	Design has a clear sense of movement created visually by the placement of floral materials	Design has a somewhat clear sense of movement created visually by the placement of floral materials	Design has no clear sense of movement created visually by the placement of floral materials	
Mechanics	Techniques used to keep floral material secure and stable are hidden or done neatly	Techniques used to keep floral material secure and stable are somewhat hidden or done neatly	Techniques used to keep floral material secure and stable are not hidden or done neatly	
Scale / Proportion	Design is the correct size based on container given	Design is slightly out of proportion or scale	Design is not in proportion with container given or space indicated	
Unity	All principles of designs are present and executed well	Some principles of design are executed well	None or few principles of design are executed well	
			TOTAL SCORE (100 points possible)	

Asexual Plant Propagation Rubric (100 POINTS)

Name	Member Number	Chapter/State	Team Number

Evaluator Name	Evaluator's Signature	Date

	Excellent	Good	Needs Improvement	Weight	Member Score
Proper sanitation and equipment use	**4–5 points** Thoroughly covering cutting instrument with a sterile solution	**2–3 points** Cleaning cutting instrument with solution	**0–1 point** No sanitation procedures followed or not followed properly	**(X2)**	
Selection of cuttings	**4–5 points** Small uniform terminal shoot cuttings	**2–3 points** Used some cuttings of the same size and type	**0–1 point** Too large nonterminal shoots, or not uniform in size	**(X2)**	
Making cuttings	**5–6 points** Straight, flush even cut of the basal end	**3–4 points** Some cuttings cut properly and some incorrectly cut	**0–2 points basal end** cut at angle or damaged	**(X2)**	
Preparation of cuttings for sticking in growing media	**5–6 points** Selected/ prepared cuttings that did not require further preparation	**3–4 points** Selected cuttings that required removal of damaged and/or unneeded foliage	**0–2 points** left damaged and/or unnecessary foliage on plant	**(X2)**	
Use of rooting hormone	**4–5 points** Poured correct amount of rooting hormone into separate container, applied Hormone & tapped off excess amount	**2–3 points** Too much or too little put in separate container, applied correctly but did not tap off extra hormone	**0–1 point** applied directly from source container and/or did not use rooting hormone	**(X2)**	
Selection of growing media	**5–6 points** Select best rooting medium for optimum rooting	**3–4 points** Select moderate but not best choice for optimum rooting	**0–2 points** selected incorrect rooting medium	**(X2)**	
Sticking of cuttings in growing media	**5–6 points** Creating a dibble in media prior to placing cutting, placing at proper depth, firming media correctly	**3–4 points** Correctly demonstrated at least 1 or 2 of the correct principles	**0–2 points** no prior hole made, planted too deep, or left unstable	**(X2)**	
Cuttings labeled correctly	**4–5 points** Labeled with date propagated, plant name, and cultivar	**2–3 points** Labeled with some but not all information required	**0–1 point** no label present or labeled with incorrect information	**(X2)**	
Response to questions	**5–6 points** Answered judges questions correctly	**3–4 points** Answered some questions correctly	**0–2 points** Did not or incorrectly answered questions	**(X2)**	
			TOTAL SCORE (100 POINTS POSSIBLE)		

Pinching Plant Rubric (100 POINTS)

Name	Member Number	Chapter/State	Team Number

Evaluator Name	Evaluator's Signature	Date

	Excellent 8-10 points	Good 4-7 points	Needs Improvement 0-3 points	Weight	Member Score
Selection of plant part to pinch	Followed given scenario to determine correct pinch	Some pinches were made in incorrect places on plant	Most all pinches were made on incorrect places	(X2)	
Use of proper procedures in making pinches	Used proper tools and/or techniques in making pinches	Used some but not all proper tools and/or techniques in making pinches	Used few or not any of proper tools and/or techniques in making pinches	(X2)	
Made proper pinches	Plant pinched correctly to get desired effect per instructions	Some pinches were too little or too much to get desired effect per instructions	Most or all of plant pinches would not allow the plant to reach desired effect per instructions	(X2)	
Overall effect of making pinches	The plant will reach desired outcome after pinching, no damage to plant parts left after pinch, and pinches correctly done	The plant will have some difficulty achieving desired outcome, some plant parts left have damage, and some pinches not done correctly	The plant will not be able to achieve desired outcome, much damage to plant part left, and most pinches not done correctly	(X2)	
Answered questions correctly	Answered questions correctly	Answered some questions correctly	Did not or incorrectly answered questions	(X2)	
			TOTAL SCORE (100 POINTS POSSIBLE)		

Potting of Young Plants Practicum Rubric (100 POINTS)

Name	Member Number	Chapter/State	Team Number

Evaluator Name	Evaluator's Signature	Date

	Excellent	Good	Needs Improvement	Weight	Member Score
Selection of plugs or liners	**5–6 points** Plugs/liners are uniform in size and shape, correct number selected based on pot size provided	**3–4 points** Plugs/liners are somewhat uniform in size and shape, just slightly off in selecting the correct number	**0–2 points** Plugs/liners are not uniform in size and shape, correct number not selected based on pot size provided	**(x2)**	
Proper planting depth	**5–6 points** Hole is made prior to placing plant in soil, the entire root system is covered, leaving proper stem length visible	**3–6 points** minor amount of roots are showing, planted slightly too deep	**0–2 points** A large amount of roots are showing or plant stem is covered with soil	**(x2)**	
Labeling of plant/pot	**5–6 points** Labeled with date planted, plant name, and cultivar	**3–4 points** Labeled with some but not all information required	**0–2 points** no label present or labeled with incorrect information	**(x2)**	
Correct growing medium level in pot	**5–6 points** Growing media is filled to the inner lip of the pot, leaving enough room to water the plant	**3–4 points** Growing media is filled slightly too high or too low	**0–2 points** Growing media is left very low or completely fills up the pot	**(x2)**	
Plug or liner arrangement and angle	**5–6 points** Plugs/Liners evenly spaced for pot size given and plugs/liners planted in upright position	**3–4 points** plugs/liners planted slightly too close or too far apart, planting slightly tilting	**0–2 points** Plugs/liners not spaced correctly and not planted upright	**(x2)**	
Firmness of growing medium	**5–6 points** After planting, growing media is tapped/ pressed firmly around each plant leaving the plant upright	**3–4 points** Growing media is left slightly loose or left slightly too firm restricting plant growth	**0–2 points** Growing media is not firmed after planting or left entirely too firm restricting plant growth	**(x2)**	
General appearance (free from handling damage)	**5-6 points** Final product presented to the judge with plants upright, pot clean, and in sellable condition	**3-4 points** Final product presented to the judge in slightly sellable condition	**0-2 points** Final product presented to judge in non-sellable condition	**(x2)**	
Response to questions	**5–6 points** Answered questions correctly	**3–4 points** Answered some questions correctly	**0–2 points** Did not or incorrectly answered questions	**(x2)**	
				TOTAL SCORE (100 POINTS POSSIBLE)	

Making and Packaging a Corsage Rubric (75 POINTS)

Name	Member Number	Chapter/State	Team Number

Evaluator Name	Evaluator's Signature	Date

	Excellent	Good	Needs Improvement	Weight	Member Score
Mechanical Application	**11–15 points** Techniques used to keep floral material secure and stable are hidden or done neatly	**6–10 points** Techniques used to keep floral material secure and stable are somewhat hidden or done neatly	**0–5 points** Techniques used to keep floral material secure and stable are not hidden or done neatly	**(x2)**	
Color	**7–10 points** Color is used evenly/harmoniously throughout	**4–6 points** Color is used somewhat correctly	**0–3 points** Color is not used correctly	**(x2)**	
Creativity	**11–15 points** Design expresses a high level of creative ability and advanced design techniques.	**6–10 points** Design expresses some creative ability and minimal advanced design techniques	**0–3 points** Design lacks creative ability and demonstrated limited design techniques	**(x2)**	
Balance	**7–10 points** Design is physically and visually balanced	**4–6 points** Design is slightly off balance	**0–3 points** Design does not follow the principles of design regarding balance	**(x2)**	
Design & Category Interpretation	**4–5 points** Design follows scenario given for an overall cohesive design	**2–3 points** Design somewhat follows scenario given and overall design is somewhat cohesive	**0–1 points** Design does not follow given scenario	**(x2)**	
Bill of Sale Completion	**7–10 points** Bill of Sale is completed entirely with a complete list of all items used	**5–8 points** Bill of Sale is not entirely complete or missing some items used in the design	**0–4 points** Bill of Sale is missing a lot of detail and/or missing several items used in the design	**(x2)**	
Pricing Accuracy (accuracy of pricing identification)	**7–10 points** All items used in the design are listed with correct price, totally accurately, labor calculated corrected, within 50 cents up or down of $25.00	**4–6 points** Some items added incorrectly and/or final price slightly off target goal of $25.00	**0–3 points** Significant number of items added incorrectly or way off target goal of $25.00.	**(x2)**	
				TOTAL SCORE (75 POINTS POSSIBLE)	

Corsage Itemized List of Costs

Name	Member Number	Chapter/State	Team Number

Evaluator Name	Evaluator's Signature	Date

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 Hardgood Cost	
Sub Total	
Labor 20%	
Total Arrangement Cost	

Hazardous Situation Rubric (75 POINTS)

Name	Member Number	Chapter/State	Team Number

Evaluator Name	Evaluator's Signature	Date

	Excellent 4-5 points	Good 2-3 points	Needs Improvement 0-1 points	Weight	Member Score
Utilize proper personal safety precautions	Was able to identify /demonstrate all proper PPE.	Missed only 1 piece of PPE	Did not know or excluded much of the PPE	X 4	
Utilize proper safety procedures in clearing up the situation	All necessary safety hazards including appropriate handling of materials and equipment discussed	Most necessary safety hazards including appropriate handling of materials and equipment discussed	Safety hazards and handling considerations not addressed	X 5	
Proper disposal of problem materials	Understood and demonstrated the procedures for disposal of the contaminant.	Understood and demonstrated most of the necessary procedures for disposal	Disposal procedures lacked completeness	X 4	
Utilize proper follow-up procedures	Provided follow-up procedures for contaminant and to address prevention.	Provided some follow-up procedures for contaminant and some to address prevention.	Follow up procedures and prevention were missing	X 2	
			Total score (75 points possible)		

Disorder Practicum Scorecard (75 points)

Name	Member Number	Chapter/State	Team Number

Evaluator Name	Evaluator's Signature	Date

		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	

		Member Answer	Possible Points	Member Score
9.	Classification #:		1	
	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	
	TOTAL POINTS		75	

CLASSIFICATION

1 Diseases
2 Insects/Pests /Mites
3 Nutritional/Environmental

IDENTIFICATION

01 Aphids
02 Black Leaf Spot
03 Botrytis – Grey Mold
04 Cold Temperature (freeze)
05 Cold Water Damage
06 Damping-off
07 Downy Mildew
08 Ethylene Damage
09 Fungus Gnats
10 Insufficient Watering
11 Iron Deficiency
12 Leaf Miner
13 Leafhopper
14 Mealybugs
15 Nitrogen Deficiency
16 Phosphorus Deficiency
17 Powdery Mildew
18 Root Rot
19 Rust
20 Scale
21 Shore Flies
22 Snails/ Slugs
23 Spider Mites
24 Stem Rot
25 Thrips
26 Tospovirus (INSV and TSWV)
27 Whiteflies

CHEMICAL CONTROL

1 Fungicide
2 Insecticide
3 Miticide
4 Mulluscicide
5 No Treatment Listed

CULTURAL CONTROL

1 Apply Complete Fertilizer
2 Correct/Adjust Temperature
3 Correct/Adjust Watering
4 Ladybird Beetles
5 Nematodes
6 Parasitic Wasps
7 Predatory Mites
8 Reduce Relative Humidity
9 No Treatment Listed

Awards

Awards will be presented at an awards ceremony to individuals and/or teams based upon their rankings.

References

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

- 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— Past CDE Q&A's, https://www.ffa.org/resources/cde/questions-and-answers
- Principal of Floral Design, Pat Diehl Scace, James M. DelPrince – Goodheart Wilcox Publisher. 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, Inter- state Publishers, Inc.
- Introductory Horticulture. Carroll Shry, Edward Reiley. Eighth 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.
- FFA Resume Generator©, resumegenerator.FFA.org