Floriculture CDE (February 2025)



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 20 minutes to complete their arrangements and itemized bills. 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

Diseases

- Botrytis Gray mold
- Damping-off
- Downy mildew
- Leaf spot (Black)
- Powdery mildew

Insects and Pests

- Aphids
- Fungus gnats
- Leaf miner
- Leafhopper
- Mealybugs
- Scale

- Insufficient water damage
- Nitrogen deficiency
- Phosphorus deficiency
- Root rot
- Rust
- Stem rot
- Tospovirus (INSV and TSWV)
- 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	165	Hemerocallis cv.	Daylily
101	Aechmea fasciata cv.	Bromeliad	166	Hibiscus spp.	Hibiscus
102	Ageratum houstonianum	Floss Flower	167	Hippeastrum hybrid cv.	Amaryllis
103	Alocasia amazonica	Amazon elephant ear	168	Hosta cv.	Hosta Plantain Lily
104	Aloe vera	Aloe plant	169	Hoya carnosa	Wax Plant
105	Alstroemeria hybrid cv.	Peruvian Lily	170	Hyacinthus orientalis cv.	Hyacinth
106	Anemone coronaria	Wind Flower	171	Hydrangea macrophylla	Big Leaf Hydrangea
107	Anethum graveolens cv.	Dill	172	Hypoestes phyllostachya	Polka-Dot plant
108	Angelonia hybrid cv.	Angelonia	173	Impatiens hawkeri	New Guinea Impatiens
109	Anthurium x andraeanum cv	. Flamingo Plant	174	Impomoea batatas cv.	Sweet potato vine
110	Antirrhinum majus cv.	Snapdragon	175	Iris x xiphium cv.	Dutch Iris
111	Aphelandra squarrosa cv.	Zebra Plant	176	Justica brandegeana	Shrimp Plant
				Kalanchoe x blossfeldiana	
112	Araucaria heterophylla	Norfolk Island Pine	177	CV.	Kalanchoe
113	Asparagus densiflorus	Fox Tail Fern	178	Leucanthemum x superbum	Shasta Daisy
114	Aster Amellus	Aster	179	Liatris spicata	Blazing stars
115	Astilbe hybrid cv.	Astilbe	180	Lilium hybrid cv.	Asiatic or Oriental Lily
	Begonia x semperflorens –				
116	cultorum	Wax Begonia	181	Limonium sinuatum	Statice
117	Begonia x tuberhybrida cv.	Tuberous Begonia	182	Lobularia maritima	Alyssum
118	Caladium x hortulanum cv.	Caladium	183	Mandevilla spp.	Rock Trumpet
119	Calathea insignis	Rattlesnake plant	184	Maranta leuconeura	Prayer Plant
120	Calibrachoa hybrid cv.	Million Bells	185	Matthiola incana cv.	Stock
121	Callistephus chinensis cv.	China Aster	186	Monstera deliciosa	Split Leaf Philodendron
122	Campanula hybrid cv.	Bell Flower	187	Narcissus hybrid cv.	Daffodil or Narcissus
123	Canna x generalis cv.	Canna	188	Nephrolepis exaltata cv.	Boston Fern
124	Capsicum annuum	Ornamental Pepper	189	Ocimum basilicum cv.	Basil
125	Celosia argentea cv.	Cockscomb	190	Opuntia cv.	Cactus
		Cornflower,			
126	Centaurea cyanus	Bachelor's Button	191	Paeonia cv.	Peony
127	Chamaedorea elegans	Parlor Palm	192	Paphiopedilum hybrid cv.	Ladyslipper Orchid
128	Chamelaucium uncinatum	Waxflower	193	Pelargonium peltatum cv.	Ivy Geranium
129	Cholorophytum comosum cv	.Spider Plant	194	Pelargonium x hortorum cv.	Zonal Geranium
	Chrysanthemum x				
130	morifolium	Chrysanthemum	195	Pentas hybrid cv.	Pentas star flower
131	Clematis hybrid cv.	Clematis	196	Peperomia sp.	Peperomia
	Codiaeum variegatum				
132	pictum	Croton	197	Petroselinum crispum cv.	Parsley
133	Colocasia esculenta	Taro	198	Petunia x hybrida cv.	Petunia
134	Cordyline fruticosa	Ti Plant	199	Phalaenopsis cv.	Moth Orchid
135	Crassula argentea	Jade Plant	200	Philodendron scandens oxycardium	Heartleaf Philodendron

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

Floriculture Tool Identification List

ΓΙΟΙΙ	Guiture 1001 luciitiiigatioii liət		
No.	Item	350	Impulse sprinkler
301	#100 Ribbon (satin, sheer, wired)	351	Drip Irrigation tape
302	#3 Ribbon (satin, sheer, wired)	352	Irrigation timer
303	#40 Ribbon (satin, sheer, wired)	353	Mist nozzle (mist bed)
304	#9 Ribbon (satin, sheer, wired)	354	Nosegay holder
305	18-Gauge floral wire	355	Nursery container
306	28-Gauge floral wire	356	Oscillating sprinkler
307	Anvil-and-blade pruner	357	Peat moss
308	Backflow preventer	358	Peat pots
309	Bouquet sleeve	359	Pest strips
310	Bulb planter	360	pH testing meter
311	Cardette	361	Polyethylene film
312	Cell pack containers	362	Polyethylene pipe
313	Ceramic container	363	Pot covers
314	Chemical resistant gloves	364	Propagation mat
315	Chenille stem	365	Propagation trays
316	Coconut coir	366	PVC (polyvinyl chloride) pipe
317	Compressed air sprayer	367	PVC pipe cutter
318	Corsage box	368	Resin-coated fertilizer
319	Corsage pin	369	Respirator
320	Corsage snips	370	Ribbon shears
321	Drip emitter, irrigation	371	Rice hulls
322	Dry foam	372	Rockwool propagation cubes
323	Dust mask	373	Rose and stem flower stripper
324	Duster	374	Safety goggles
325	Ellepot propagation cubes	375	Sand
326	Enclosure card	376	Scoop shovel
327	Fern greening pins	377	Shade fabric
328	Fertilizer injectors	378	Sharpening stone
329	Floral adhesive	379	Sheet moss
330	Floral foam	380	Siphon injector
331	Floral knife	381	Soil moisture meter
332	Floral preservative	382	Solenoid valve
333	Floral stem tape	383	Spaghetti tubing (1/4" diameter or less)
334	Fogger	384	Spanish moss
335	Gas mask	385	Sphagnum moss
336	Glass vase	386	Spray suit
337	Glue gun	387	Square point (flat) shovel
338	Glue pan	388	Styrofoam
339	Glue sticks	389	Surestik cling
340	Granular fertilizer	390	Tulle
341	Greenhouse thermostat	391	Vermiculite
342	Hanging basket	392	Water breaker
343	Hearing protection	393	Water picks
344	Hook-and-blade pruners (bypass pruners)	394	Water picks Water soluble fertilizer
345	Hose punch	395	Water tubes
346	Hose repair coupling	396	Water tubes Waterproof container tape
510	11000 Topuli Coupining	370	mater proof container tape

397 Wire cutter398 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	Good	Needs Improvement	Member Score
Category interpretation	4-5 points Design follows given scenario within provided parameters and correlates to the appropriate style, shape and design	2-3 points Design slightly followed given scenario but is somewhat lacking in appropriate style, shape, or design	0-1 points Design does not follow given scenario and/or lacks in following the given style, shape, or design	
Balance	7-10 points Design is both visually and physically balanced	4 -6 points Design is slightly off balanced	0-3 points Design is not balanced visually or physically	
Creativity	7-10 points Design expresses advanced creative ability and advanced design techniques	4-6 points Design expresses some creative ability and minimal advanced design techniques	0-3 points Design lacks creative ability and Demonstrates limited design techniques	
Depth	7-10 points Placement of materials at different levels is evenly distributed throughout	4-6 points Placement of materials are somewhat distributed evenly	0-3 points Placement of items are not distributed evenly	
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	
Focal emphasis	7-10 points Design has one area of design that attracts the eye	4-6 points Design somewhat has a clear focal point	0-3 points Design does not have a clear focal point	
Line/Rhythm	7-10 points Design has a clear sense of movement created visually by the placement of floral materials	4-6 points Design has a somewhat clear sense of movement created visually by the placement of floral materials	0-3 points Design has no clear sense of movement created visually by the placement of floral materials	
Mechanics	7-10 points Techniques used to keep floral material secure and stable are hidden or done neatly	4-6 points Techniques used to keep floral material secure and stable are somewhat hidden or done neatly	0-3 points Techniques used to keep floral material secure and stable are not hidden or done neatly	
Scale / Proportion	4-5 points Design is the correct size based on container given	2-3 points Design is slightly out of proportion	0-3 points Design is not in proportion with container given	
Unity	4-5 points All principles of designs are present and executed well	2-3 points Some principles of design are executed well	0-1 points None or few principles of design are executed well	
		Itemized list of costs (15 pts	•	
Bill of Sale Completion	4–5 point Bill of Sale is completed entirely a complete list of all items used	2-3 points Bill of Sale is not entirely complete or missing some items used in the design	0-1 points Bill of Sale is missing a lot of detail and/or missing several items used in the design	
Individual Pricing and Quantity Used	4–5 points All items used in the design are individual price and quantity totally accurate	2-3 points Some items added incorrectly, or quantity used listed incorrectly.	0–1 points Significant number of items added or listed incorrectly	

Name	Member Number	Chapter/State	Team Numbe	er
Eva rdona n Arra	angement/temized I	List of Costs	Date	
Quantity	<u>Flower/Foliage</u>		<u>Unit Cost</u>	<u>Total</u>
		TOTAL ELOW/ED/EO	LIAGE MATERIAL COST	
		TOTAL FLOWER/FOR	LIAGE MATERIAL COST	
<u>Ouantity</u>	<u>Material Used</u>		<u>Unit Cost</u>	<u>Total</u>
		ТОТ	TAL HARD GOODS COST	
		m.		
		Tot	al Plant Material Cost Total Hardgood Cost	
			Sub Total	
			Labor 20%	
		То	tal Arrangement Cost	

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
				vveignt	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	
Fusinator Name	Fualuator's Cianatura		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)	

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	tem is	
Labeling of plant/pot	5-6 points Labeled with date 3-4 points Labeled with some but 0-2 points no label present or		(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	g, growing apped/ slightly loose or left slightly too firm restricting plant 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 F	POSSIBLE)	

Making and Packaging a Corsage Rubric (75 POINTS)

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

	Excellent		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	7-10 points	4–6 points		0-3 points	(x2)	
(accuracy of pricing identification)	All items used in the design are listed with correct price, totally accurately, labor calculated corrected, within	Some items added incorrectly and/or final price slightly off target goal of \$25.00	added	icant number of items d incorrectly or way off rget goal of \$25.00.		
Quantity	Flow	er/Foliage		<u>Unit Cost</u>	<u>Tota</u>	<u>l</u>
		TOTAL FL	OWER/FC	LIAGE MATERIAL COST		
Quantity	<u>Mate</u>	<u>rial Used</u>		<u>Unit Cost</u>	<u>Tota</u>	1
			ТО	TAL HARD GOODS COST		
	50 cents up or down of \$25.00					
			то	TAL SCORE (75 POINTS F	POSSIBLE)	

Corsage Itemized List of Costs

Name	Member Number	Chapter/State	Team Number
Evaluator Name	Evaluator's Signature		Date
Evaluator Mairie	Evaluator 5 Signature		Date

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 Total Plant Mat Total Hards		
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.		Sub Total ibor 20%	

Total score (75 points possible)

Disorder Practicum Scorecard (75 points)

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

		Member	Possible Points	Member			Member Answer	Possible Points	Member Score	01 02	Aphids Black Leaf Spo	at .
1.	Classification #:		1		9.	Classification #:		1		03	Botrytis - Grey	
	Identification #:		2	П		Identification #:		2		04	Cold Temperat	
	Chemical Control #:		1	П		Chemical Control #:		1		05	Cold Water Da	mage
	Cultural/Biological Control #:		1	П		Cultural/Biological Control #:	1	1		06	Damping-off Downy Mildew	
2.	Classification #:		1	Н	10.	Classification #:		1		08	Ethylene Dam	
	Identification #:		2	Н		Identification #:		2		09	Fungus Gnats	
	Chemical Control #:		1	H		Chemical Control #:		1	\vdash	10	Insufficient Wa	
	Cultural/Biological Control #:		1	H		Cultural/Biological Control #:		1	H	11	Iron Deficiency Leaf Miner	y
3.			1	\mathbf{H}	n.	Classification #:	V /	1		13	Leafhopper	
-	Classification #:	_	2	\vdash		Identification #:	197			14	Mealybugs	
	Identification #:			Ш				2	_	15	Nitrogen Defic	ciency
	Chemical Control #:		1	Ш		Chemical Control #:		1		16	Phosphorus D	eficiency
	Cultural/Biological Control #:		1		35	Cultural/Biological Control #:		1		17	Powdery Milde	ew
4.	Classification #:		1		12.	Classification #:		1		18	Root Rot	
	Identification #:		2	П		Identification #:		2		19	Rust Scale	
	Chemical Control #:		1	\Box		Chemical Control #:		1		21	Shore Flies	
	Cultural/Biological Control #:		1	H		Cultural/Biological Control #:	20 1	1		22	Snails/Slugs	
5.	Subject to the subjec	\vdash	1	H	13.	Classification #:	7	1	H	23	Spider Mites	
	Classification #:	_	2	Ш		Identification #:		2	-	24	Stem Rot	
	Identification #:		2	Ш				2		25	Thrips	C) / TC) AO
	Chemical Control #:		1			Chemical Control #:		1		26 27	Tospovirus (IN Whiteflies	SV and ISWV
	Cultural/Biological Control #:		1		1100	Cultural/Biological Control #:		1				
6.	Classification #:		1		14.	Classification #:		1			EMICAL CONTRO)L
	Identification #:		2	П		Identification #:		2		1 2	Fungicide Insecticide	
	Chemical Control #:		1	H		Chemical Control #:	T T	1		3	Miticide	
	Cultural/Biological Control #:		1	H		Cultural/Biological Control #:	7	1	-	4	Mulluscicide	
7.	Classification #:		1	H	15.	Classification #:	de l	1	-	5	No Treatment	Listed
	5/45 67-71 89 50807		2	\mathbf{H}		Identification #:	-	2		CUI	LTURAL CONTRO	L
	Identification #:		1			Chemical Control #:	-	1		1	Apply Comple	
	Chemical Control #:	_	730	Ш						2	Correct/Adjust	
	Cultural/Biological Control #:		1	Ш		Cultural/Biological Control #:		1		3	Correct/Adjust	
8.	Classification #:		1			TOTAL POINTS		75		5	Ladybird Beet Nematodes	ies
	Identification #:		2		2000	CLASSIFICATION	0.0			6	Parasitic Wasp	os
	Chemical Control #:		1			1 Diseases				7	Predatory Mite	
	Cultural/Biological Control #:		1	П		2 Insects/Pests /Mite	S			8	Reduce Relativ	
						3 Nutritional/Environ		ntal		9	No Treatment	Listed

National FFA Organization | Career and Leadership Development Events for West Virginia

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



HORTICULTURE CDE# 105482

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