

Floriculture

A Special Project of the South Dakota FFA Foundation

Important Note

Please thoroughly read the General Rules at the beginning of this handbook for complete rules and procedures that are relevant to all South Dakota FFA Career Development Events.

Purpose

The purpose of the Floriculture Career Development Event is to promote the study or interest in production and retailing of flowers, plants, and foliage through the agricultural education curriculum.

Objectives

- Identify floriculture and bedding plant materials.
- Identify and understand the treatment of unhealthy plants due to pest, nutritional, mechanical, or chemical injury.
- Understand the biological and scientific principles and develop the skills underlying propagation, growth requirements, growing techniques, harvesting, marketing and maintenance of established floriculture plants.
- Understand principles and develop skills of floral design.
- Identify and select appropriate supplies and equipment for the flower shop and greenhouse.
- Understand and demonstrate the use of safety procedures and practices in floriculture operations.
- Understand general business practices appropriate to the floriculture industry.

Event Rules

Each team will be comprised of four members.

The top three individual scores will be used to determine the final team score.

Event Format

The Floriculture CDE will consist of four phases, including: identification of plant materials, a general knowledge examination, problem solving/decision making, and a floral arrangement practicum.

Identification of Plant Materials and Equipment – 50 points

Each participant will be allowed 25 minutes to complete this phase of the event.

Fifty specimens from the South Dakota Floriculture Plant and Equipment Identification list will be displayed for participants to identify common names.

The 50 specimens will be split into 40 plants and 10 equipment.

Each specimen will be designated by a number to be filled in on the scantron.

One point will be awarded for each specimen that is correctly identified.

General Knowledge Examination – 50 points

Each participant will be allowed 50 minutes to complete this phase of the event.

Fifty objective-type multiple-choice questions will be written that cover areas of the floriculture industry.

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's.

Each answer has a value of one point.

Problem Solving/Decision Making – 50 points

Each participant will be allowed 50 minutes to complete this phase of the event.

Each participant will solve five problems related to the various aspects of the floriculture industry identified in the CDE objectives. Each problem will describe a situation associated with the floriculture industry and list four possible solutions.

Each participant must utilize problem solving skills to select the BEST possible solution to the question. All materials and information necessary to solve the questions will be available to the participant.

Floral Arrangement Practicum – 100 points

Participants will be allowed 20 minutes to complete their arrangements and 5 minutes to complete an itemized bill.

Each student will make a \$35.00 floral arrangement with the materials provided. No outside materials will be allowed, with the exception of floral knife/shears.

Participants will be provided the retail price of the flowers and foliage that they will use in their arrangements. The markup will be built into the retail price of the flowers and foliage used in the arrangement. Retail cost of flowers and foliage given to the participant will be determined after polling florists to determine their current retail prices of the materials.

Scoring

	Points Possible
Identification of Plant Materials	50
General Knowledge Exam	50
Problem Solving / Decision Making	50
Floral Arrangement Practicum	100
Total Possible Individual Score	250
Total Possible Team Score (3 participants)	750

Tiebreakers

- A. In the case of a team tie, the order to break the tie will be:
 1. Floral Arrangement Scores
 2. Total Problem Solving Score
- B. In the case of an individual tie, the order to break the tie will be:
 1. Individual General Knowledge Exam Score
 2. Individual Identification of Plant Materials Score

References

National FFA Core Catalog – Past CDE Materials (<http://shop.ffa.org/cde-materials-c1289.aspx>)
Introduction to Horticulture. Schry & Reilly, Delmar Publishers.
Floral Design & Interior Landscape Management. Dianne A. Noland, Prentice-Hall, Inc.

South Dakota Floriculture Plant and Equipment Identification List

Aglaonema commutatum cv. / Aglaonema	Iris x xiphium cv. / Dutch Iris
Alstroemeria aurantiaca / Peruvian Lily	Kalanchoe x blossfeldiana cv. / Kalanchoe
Anthriscum majus cv. / Snapdragon	Liatris spicata / Liatris
Anthurium x andraeanum cv. / Anthurium, Flamingo Lily	Lilium x hybridum cv. / Hybrid (Garden) Lily
Araucaria heterophylla / Norfolk Island Pine	Limonium sinuatum / Statice
Asparagus densiflorus 'Sprengeri' / Sprengeri, Fern	Matthiola incana cv. / Flowering Stock
Astilbe hybrid cv. / Astilbe	Monstera deliciosa / Cutleaf "Philendron"
Begonia x semperflorens-cultorum / Wax Begonia	Narcissus pseudo-narcissus cv. / Daffodil
Canna x generalis cv. / Common Garden Canna	Nephrolepis exaltata cv. / Boston Fern
Chamaedorea elegans / Parlor Palm	Opuntia tribe cv. / Cactus
Chamaelirium uncinatum / Waxflower	Pelargonium x hortorum cv. / Zonal Geranium
Chlorophytum comosum cv. / Spider Plant	Pelargonium peltatum cv. / Ivy Geranium
Chrysanthemum x morifolium cv. / Florist's Chrysanthemum	Peperomia caperata / Emerald Ripple Peperomia
Cissus rhombifolia "mandarina" / Grape Ivy	Petunia x hybrid cv. / Common Garden Petunia
Codiaeum variegatum pictum cv. / Croton	Phalaenopsis cv. / Phalaenopsis (Butterfly) Orchid
Crassula argentea / Jade Plant	Philodendron oxycardium / Heartleaf Philodendron
Cyclamen x persicum cv. / Florist's Cyclamen	Pilea microphylla / Artillery Plant
Cymbidium cv. / Cymbidium Orchid	Plectranthus nummularis / Swedish Ivy
Dianthus caryophyllus cv. / Carnation	Primula x polyanthus cv. / Polyanthus (Primrose)
Dieffenbachia maculata cv. / Spotted Dumbcane	Rhododendron cv. / Azalea
Dracaena fragrans 'Massangeana' / Corn Plant Draceana	Rosa hybrid, Class Hybrid Tea cv. / Hybrid Tea Rose
Echeveria cv. / Hens and Chickens	Rumohra adiantiformis / Leatherleaf Fern
Epipremnum aureum / Golden Pothos, Devil's Ivy	Saintpaulia ionantha cv. / African Violet
Exacum affine / German (Persian) Violet	Sansevieria trifasciata cv. / Snake Plant
Ficus benjamina 'Exotica' / Benjamin Fig	Senecio x hybridus cv. / Florist's Cineraria
Ficus elastic 'Decora' / 'Decora' Rubber Plant	Sinningia speciosa Fyfianna Group cv. / Gloxinia
Freesia x hybrid / Freesia	Syngonium podophyllum / Nephthytis
Gerbera jamesonii / Transvaal Daisy	Tagetes species cv. / Marigold
Gladiolus x hortulanus cv. / Garden Gladiolus	Solenostemon hybrid / Coleus
Gypsophila elegans' cv. / Baby's Breath	Spathiphyllum clevelandii / White Anthurium, Peace Lily
Hedera helix cv. / English Ivy	Stephanotis floribunda / Stephanotis
Hosta undulate / Plantain Lily	Sterlitzia reginae / Bird-of-Paradise
Hoya carnosa / Wax Plant	Tulipa cv. / Tulip
Hyacinthus orientalis cv. / Hyacinth	Viola x wittrockiana cv. / (Garden) Pansy
Hydrangea macrophylla macrophylla cv. / French (Florist's) Hydrangea	Zebrina pendula cv. / Wandering Jew

Boutonniere Pin	Ribbon scissor
Corsage Pin	Rose stripper
Corsage Stem	Steel pick machine
Corsage Tape	Styrofoam cutter
Glue Gun	Under water cutter
Glue Pan	Waterproof tape
Knife sharpener	Wire cutters
Paddle Wire	Wristlet
Pruner	

Floral Arrangement Scorecard

Participant's Name: _____

Chapter: _____

	Possible Points	Points Earned
Design	35	
Balance	15	
Functionality	5	
Judges' Choice	10	
Total Arrangement Score	65	
Price Range	11	
Accuracy	10	
Completeness	7	
Neatness	7	
Total Itemized Bill Score	35	
Total Score	100	

Explanation of Floral Arrangement Terms

Design: Design is the overall shape or form of the composition; a planned relationship of the parts. The elements of design include: line (linear patterns attracting the eye to the focal point); form (three dimensional shape); texture (surface appearance of materials); color (use of tints, tones, shades of hues, as well as black, gray and white); the pleasing way in which lines, textures, sizes and colors are blended or contrasted and the tying together of the parts by the combination of good design, balance, and harmony.

Balance: Visual stability, regardless of whether design is symmetrical or asymmetrical determined by the relative sizes of material and relative darkness of lightness and the placement of them.

Functionality: Appropriateness of arrangement for intended use and soundness of construction.

Judge's Choice: The use of plant materials and design principles in a particularly creative, original, and unique manner.

Floral Arrangement Itemized List of Costs

Participant's Name: _____

Chapter: _____

Flower/Foliage	Quantity Used	Unit Cost	Total
Total Flower/Foliage Material Cost			

Other	Quantity Used	Unit Cost	Total
Total Other Materials Cost			

Total Flower/Foliage Material Cost	
Total Other Material Cost	
Floral 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.