

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

001	Aglaonema commutatum cv. / Aglaonema	036	Iris x xiphium cv. / Dutch Iris
002	Alstroemeria aurantiaca / Peruvian Lily	037	Kalanchoe x blossfeldiana cv. / Kalanchoe
003	Anthriscum majus cv. / Snapdragon	038	Liatris spicata / Liatris
004	Anthurium x andraeanum cv. / Anthurium, Flamingo Lily	039	Lilium x hybridum cv. / Hybrid (Garden) Lily
005	Araucaria heterophylla / Norfolk Island Pine	040	Limonium sinuatum / Statice
006	Asparagus densiflorus 'Sprengeri' / Sprengeri, Fern	041	Matthiola incana cv. / Flowering Stock
007	Astilbe hybrid cv. / Astilbe	042	Monstera deliciosa / Cutleaf "Philendron"
008	Begonia x semperflorens-cultorum / Wax Begonia	043	Narcissus pseudo-narcissus cv. / Daffodil
009	Canna x generalis cv. / Common Garden Canna	044	Nephrolepis exaltata cv. / Boston Fern
010	Chamaedorea elegans / Parlor Palm	045	Opuntia tribe cv. / Cactus
011	Chamaecrista uncinata / Waxflower	046	Pelargonium x hortorum cv. / Zonal Geranium
012	Chlorophytum comosum cv. / Spider Plant	047	Pelargonium peltatum cv. / Ivy Geranium
013	Chrysanthemum x morifolium cv. / Florist's Chrysanthemum	048	Peperomia caperata / Emerald Ripple Peperomia
014	Cissus rhombifolia "mandarina" / Grape Ivy	049	Petunia x hybrid cv. / Common Garden Petunia
015	Codiaeum variegatum pictum cv. / Croton	050	Phalaenopsis cv. / Phalaenopsis (Butterfly) Orchid
016	Crassula argentea / Jade Plant	051	Philodendron oxycardium / Heartleaf Philodendron
017	Cyclamen x persicum cv. / Florist's Cyclamen	052	Pilea microphylla / Artillery Plant
018	Cymbidium cv. / Cymbidium Orchid	053	Plectranthus nummularis / Swedish Ivy
019	Dianthus caryophyllus cv. / Carnation	054	Primula x polyanthus cv. / Polyanthus (Primrose)
020	Dieffenbachia maculata cv. / Spotted Dumbcane	055	Rhododendron cv. / Azalea
021	Dracaena fragrans 'Massangeana' / Corn Plant Dracaena	056	Rosa hybrid, Class Hybrid Tea cv. / Hybrid Tea Rose
022	Echeveria cv. / Hens and Chickens	057	Rumohra adiantiformis / Leatherleaf Fern
023	Epipremnum aureum / Golden Pothos, Devil's Ivy	058	Saintpaulia ionantha cv. / African Violet
024	Exacum affine / German (Persian) Violet	059	Sansevieria trifasciata cv. / Snake Plant
025	Ficus benjamina 'Exotica' / Benjamin Fig	060	Senecio x hybridus cv. / Florist's Cineraria
026	Ficus elastic 'Decora' / 'Decora' Rubber Plant	061	Sinningia speciosa Fyfianna Group cv. / Gloxinia
027	Freesia x hybrid / Freesia	062	Syngonium podophyllum / Nephthytis
028	Gerbera jamesonii / Transvaal Daisy	063	Tagetes species cv. / Marigold
029	Gladiolus x hortulanus cv. / Garden Gladiolus	064	Solenostemon hybrid / Coleus
030	Gypsophila elegans' cv. / Baby's Breath	065	Spathiphyllum clevelandii / White Anthurium, Peace Lily
031	Hedera helix cv. / English Ivy	066	Stephanotis floribunda / Stephanotis
032	Hosta undulate / Plantain Lily	067	Sterlitia reginae / Bird-of-Paradise
033	Hoya carnosa / Wax Plant	068	Tulipa cv. / Tulip
034	Hyacinthus orientalis cv. / Hyacinth	069	Viola x wittrockiana cv. / (Garden) Pansy
035	Hydrangea macrophylla macrophylla cv. / French (Florist's) Hydrangea	070	Zebrina pendula cv. / Wandering Jew

071	Boutonniere Pin	080	Ribbon scissor
072	Corsage Pin	081	Rose stripper
073	Corsage Stem	082	Steel pick machine
074	Corsage Tape	083	Styrofoam cutter
075	Glue Gun	084	Under water cutter
076	Glue Pan	085	Waterproof tape
077	Knife sharpener	086	Wire cutters
078	Paddle Wire	087	Wristle
079	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.