Kansas Agriculture Education

Name:	**SS #:**
Department: *Agriculture, Food & Natural Resources- 18061*	**Instructor:**

Greenhouse Production & Mgmt-18068

Enrollment Date	Completion Date	Hours Completed

Rating Scale:	3 - Skilled - Works independently
	2 - Limited Skill - Requires assistance to perform task
	1 - Skill Underdeveloped - Received instruction but has not developed skill
	0 - No Exposure - No instruction or training in this area
Directions:	Evaluate the student by checking the appropriate number to indicate the degree of competency reached. Rate each task to reflect employability readiness.

I certify that the student received training in the areas indicated:

Student Signature _____ / /

Instructor Signature _____ / /

Administrator Signature _____ / /

Key to Integrated Concepts: (A) Academic {AC-Communication/English, AM-Math, AS-Science} (CD) - Career Development (E) - Experience Based (L) - Leadership

A. GREENHOUSE STRUCTURES

3 2 1 0	1	Identify the different structures of a greenhouse
3 2 1 0	2	Explain the uses of similar greenhouse structures (AC)
3 2 1 0	3	Identify the covering materials of a greenhouse
3 2 1 0	4	List the advantages of different covering materials
3 2 1 0	5	List the disadvantages of different covering materials
3 2 1 0	6	Discuss the different benching styles of greenhouses
3 2 1 0	7	List the advantages of different benching materials
3 2 1 0	8	List the disadvantages of different benching materials
3 2 1 0	9	Identify the different types of walkway materials
3 2 1 0	10	Design an interior layout for a greenhouse (AM)
3 2 1 0	11	Discuss the environmental controls of a greenhouse (AC, AS)
3 2 1 0	12	Demonstrate manual control of a greenhouse

B. GREENHOUSE OPERATIONS

3 2 1 0	1	Summarize various planting characteristics
3 2 1 0	2	Schedule planting dates based on sale date
3 2 1 0	3	Identify different types of growing media
3 2 1 0	4	Sow seeds directly in growing media
3 2 1 0	5	Use propagation mats for germinating seeds
3 2 1 0	6	Control temperature of propagation mats
3 2 1 0	7	Sow seeds in flats for transplanting
3 2 1 0	8	Transplant seedlings
3 2 1 0	9	Label plants
3 2 1 0	10	Transplant cuttings
3 2 1 0	11	Label cuttings
3 2 1 0	12	Transplant hanging baskets

C. WATERING TECHNIQUES

3 2 1 0	1	Explain the effects of overwatering (AC)
3 2 1 0	2	Explain the effects of underwatering (AC)
3 2 1 0	3	Demonstrate how to hand water plants (AC, E)
3 2 1 0	4	Demonstrate the holding capacity of a growing medium (AS)
3 2 1 0	5	Identify the different types of irrigation systems
3 2 1 0	6	Regulate irrigation systems (E)
3 2 1 0	7	Design an irrigation system for a greenhouse (AM)

D. FERTILIZERS

3 2 1 0	1	Analyze soil samples to determine pH levels (AS)
3 2 1 0	2	Analyze soil sample to determine soil analysis (AS)
3 2 1 0	3	Identify the different forms of fertilizer
3 2 1 0	4	Calculate fertilizer ratios (AM)
3 2 1 0	5	Measure fertilizer amounts (AM)
3 2 1 0	6	Mix fertilizers into solution (E)
3 2 1 0	7	Mix fertilizers into growing media (E)
3 2 1 0	8	Apply liquid fertilizer (E)
3 2 1 0	9	Apply granular fertilizer (E)
3 2 1 0	10	Calibrate a fertilizer injecting system (AM, E)
3 2 1 0	11	Demonstrate use of fertilizer injector (AC, E)

E. PESTICIDES

3 2 1 0	1	Identify insect greenhouse pests
3 2 1 0	2	Identify insect damage
3 2 1 0	3	Identify greenhouse plant diseases
3 2 1 0	4	Identify greenhouse plant damage
3 2 1 0	5	Remove dead or diseased plant parts
3 2 1 0	6	Remove weeds manually from plant containers
3 2 1 0	7	Treat plants to prevent fungi
3 2 1 0	8	Explain the different methods of pest control
3 2 1 0	9	Demonstrate safety precautions when working with pesticides
3 2 1 0	4	Present an oral report on insects and/or pests (AC)
3 2 1 0	5	Calculate proper pesticide ratios (AM)
3 2 1 0	6	Measure pesticide amounts (AM)
3 2 1 0	7	Formulate pesticides (AM)
3 2 1 0	8	Mix pesticides correctly (E)
3 2 1 0	9	Identify pesticide applying equipment
3 2 1 0	10	Calibrate a pesticide sprayer (AM)
3 2 1 0	11	Apply pesticides (E)

F. FFA - LEADERSHIP AND PERSONAL DEVELOPMENT/RECORDKEEPING

3 2 1 0	1	Develop a personal resume' (CD) (E) (L)
3 2 1 0	2	Complete a job application (CD) (E) (L)
3 2 1 0	3	Interview for a greenhouse production job (CD) (E) (L)
3 2 1 0	4	Demonstrate salesmanship skills (CD) (E) (L)
3 2 1 0	5	Price plants (AM)
3 2 1 0	6	Calculate change (AM)
3 2 1 0	7	Design a plant sale advertisement (CD) (E) (L)
3 2 1 0	8	Take inventory (AM)
3 2 1 0	9	Calculate production costs (AM)
3 2 1 0	10	Keep accurate computerized records (AM)
3 2 1 0	11	Analyze plant sale profitability (AM)
3 2 1 0	12	Complete SAE and/or FFA recordbook (AM) (CD) (E) (L)
3 2 1 0	13	Attend floriculture and/or nursery/landscape CDE (CD) (E) (L)