Directions:	Evaluate the trainee using the rating scale below and check the appropriate number to indicate the degree of competency achieved. The numerical ratings of 3, 2, 1, and 0 are not
	intended to represent the traditional school grading system of A, B, C, D, and F. The
	descriptions associated with each of the numbers focus on level of student performance for
	each of the tasks listed below.
Rating Scale:	<b>0 - No Exposure</b> - no information nor practice provided during training program, complete training required.
	1 - Exposure Only - general information provided with no practice time, close supervision needed and additional training required.
	2 - Moderately Skilled - has performed independently during training program, limited additional training may be required.
	<b>3 - Skilled</b> - can perform independently with no additional training.

1. Number of Competencies Evaluated	
2. Number of Competencies Rated 2 or 3	
3. Percent of Competencies Attained (2/1)	
Grade Instructor Signature	Date

01.0	Flomon	tary Study of Soils	0 1 2 3		
01.0		lent will be able to:		02.06	Calculate problems comparing fertilizer cost by comparing cost
0 1 2 3	THE State	ion will be dole to.		02.00	per pound of nutrients
	01.01	Identify reasons why soils are important		02.07	Discuss methods and procedures involved in collecting a
	01.02	Discuss the function of soil as related to plant growth,			representative soil sample
		development, and maintenance		02.08	Complete a soils test report form, and make fertilizer
	01.03	Select factors that affect soil formation			recommendations
	01.04	List the four physical properties of soil		02.09	Identify and discuss methods of fertilizer application
	01.05	Identify soil particles according to size, and discuss methods used			
		to determine soil texture	03.0	Irrigation	on
	01.06	Identify five kinds of soil structure		The stud	lent will be able to:
	01.07	Match terms indicating soil color and depth with their correct	0 1 2 3		
		descriptions		03.01	List reasons for irrigating
	01.08	Label an illustration showing the different layers of a soil profile		03.02	Select from a list factors that affect water intake rates
	01.09	Discuss acidity and alkalinity and methods of correcting problems		03.03	Calculate the water holding capacity of a soil
		associated with each		03.04	List methods of estimating soil moisture in crop root zone
				03.05	Calculate irrigation frequency
02.0	Soil Fer	·		03.06	Name and properly convert units of water measurement
	The stud	lent will be able to:		03.07	Name four types of irrigation systems
0 1 2 3				03.08	Select factors that affect the selection of irrigation systems
	02.01	Match primary and secondary nutrients with their correct function		03.09	Match the basic parts of a surface irrigation system with the
		for plant growth			correct description
	02.02	Match nutrients with correct deficiency symptoms		03.10	Match the basic parts of a sprinkler irrigation system with the
	02.03	Select factors that influence the use of fertilizers			correct description
	02.04	List four sources of nutrients		03.11	Identify resource management practices with the appropriate
	02.05	Match dry, liquid, and gaseous fertilizers with their correct			water law
		description and use		03.12	Calculate costs associated with irrigation

04.0		reparation	0 1 2 3	06.07	No. of the second of the secon
0 1 2 3	i ne stu	dent will be able to:		06.07	Name the proper fertilizer and soil amendments needed from soil test information provided
	04.01	Identify reasons for tillage		06.08	List factors considered in homesite evaluation
	04.02	List characteristics of a good seedbed			Match the variations of permeability, slope, erosion, runoff,
	04.03	Discuss cultural practices involved in seedbed preparation		00.07	shrink-swell, water table, and flooding with the identifying
	04.04	Select from a list factors that determine the time to plow			characteristics of each for homesite evaluation
	04.05	List advantages of fall plowing and spring plowing		06.10	Select, when given land factor the degree of limitation for
	04.06	Discuss advantages of turning under crop residue			foundation without basement; lawns, shrubs, and gardens; septic
	04.07	List reasons for stubble mulching			systems, and lagoon sewage systems
	04.08	Discuss summer following		06.11	Demonstrate ability to complete land judging and homesite
	04.09	List reasons to use minimum tillage			evaluation score card when given the characteristics of the site
	04.10	Identify equipment used in land preparation			
	04.11	Describe herbicides used for sterilization, clean-up, and weed	07.0		uction to Crop Science
		control		The stu	dent will be able to:
	~ ~		0 1 2 3	07.01	
05.0		nservation			List the necessities for animal life that are furnished by plants
0.1.0.0	The stu	dent will be able to:			List major crops grown in the U.S.
0 1 2 3	05.01				List the major crops of Idaho by rank in production in the U.S.
	05.01 05.02	List four types of erosion List factors that influence soil erosion		07.04	Classify plants as cereal, root crop, tree crop, pulse oil seed, or
	05.02	Describe the four categories of water erosion		07.05	forage crop  Match the common crops of Idaho with their average yields
	05.03	List conservation practices for reducing erosion			List the limiting factors relating to crop production
	05.04	List mechanical and cropping practices used to reduce water			Discuss the purpose of the Crop Reporting Service and the Idaho
	03.03	erosion		07.07	Crop Improvement Association
	05.06	List factors that determine cropping systems			Crop improvement rissociation
	05.07	List three organizations involved with soil conservation	08.0	Basic F	Plant Processes
				The stu	dent will be able to:
06.0	Land E	Evaluation and Use Classification	0 1 2 3		
	The stu	dent will be able to:			List the important plant processes in food manufacture and growth
0 1 2 3				08.02	Explain why photosynthesis is an important process
	06.01	List reasons for evaluating land		08.03	Explain the chemical process of photosynthesis
	06.02	List factors used in determining land capability class			List factors that affect photosynthetic rate
	06.03	Select, when given land factors, the best land class possible for		08.05	Explain the chemical process of respiration
		the specified field		08.06	Distinguish between characteristics of photosynthesis and
	06.04	Discuss methods of determining soil texture		00.07	respiration
	06.05	Match the different variations of permeability, depth, slope,		08.07	Explain transpiration and list factors that affect transpiration rate
		erosion, surface runoff, drainage and climate with the identifying			Explain osmosis and the process of absorption by plant roots
	06.06	characteristics of each		08.09	Label the parts of a common plant cell
	06.06	Select the recommended vegetative and mechanical land treatments when given the land capability class			
		ireautients when given the fand capability class			

The student will be able to:  O 1 2 3  O 9.01 List the stages of plant growth and development  O 9.02 List requirements for good seed germination  O 9.03 List factors that cause poor seed germination  O 9.04 List the primary parts and functions of a plant  O 9.05 Identify two types of root systems  O 9.06 Correctly label a drawing showing the life cycle of an insect description  O 1 2 3  Label a drawing showing the life cycle of an insect  O 1 2 3  Discuss the importance of economics in relation to plant insect control  Control  D 1 1.07  List cultural, biological and chemical control practices for insects  Match the way an insect feeds on plants with the correct description  D 1 1.05  Label a drawing showing the life cycle of an insect  Control  D 1 1 1.07  List cultural, biological and chemical control practices for insects  D 1 1 1.08  Match classifications of insecticides to their correct description  D 1 1 1.09  D 1 1 1.09  D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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LILICID 17.09 Correctly label a drawing showing the parts of a praint stem LILICID 17.09 Identity the insects having an economic impact on idano	
□□□□ 09.07 Match stem modifications with the correct descriptive term agriculture	
□□□□ 09.08 List conditions affecting the vegetative growth of crop plant's	
□□□□ 09.09 Discuss asexual and sexual reproduction in plants 12.0 Plant Disease Identification and Control	
□□□□ 09.10 Label a drawing showing the parts of a complete flower The student will be able to:	
□□□□ 09.11 Match types of flowers to the correct description 0 1 2 3	
□□□□ 09.12 List methods of pollination □□□□ 12.01 Identify symptoms, names of diseases and causal agents of	
diseases of common economic impact to Idaho crops	
10.0 Crop and Weed Identification	
The student will be able to:  \[ \square\squ	
0 1 2 3 Describe growing conditions and cultural practices favorable to	
□□□□ 10.01 Discuss the system of plant classification common diseases	
$\square\square\square$ 10.02 Identify the parts of simple and compound leaves $\square\square\square\square$ 12.05 Describe preventative measures for diseases	
□□□□ 10.03 Name the types of leaf arrangement, venetian and margins □□□□ 12.06 Describe cultural and chemical control measures for diseases	
□□□□ 10.04 Identify the types of leaf attachment to the stem	
□□□□ 10.05 Identify the parts of a stem  13.0 Crop Chemicals	
□□□□ 10.06 Match stem modifications with their correct description The student will be able to:	
□□□□ 10.07 Identify the parts of a perfect flower 0 1 2 3	
□□□□ 10.08 Identify the types of inflorescence □□□□ 13.01 Discuss the economic importance of pesticide use	
□□□□ 10.09 Identify weed plants and common crop plants of economic impact □□□□ 13.02 List ways improper use of pesticides can harm the environment	
to Idaho	
□□□□ 10.10 Discuss weed competition and losses caused by weeds □□□□ 13.04 Discuss advantages, disadvantage and principal uses of various	
□□□□ 10.11 Discuss how weeds spread types of formulations □□□□□ 10.12 Discuss methods of cultural, mechanical, chemical and biological □□□□ 13.05 List in proper sequence procedure for mixing wettable powders	
weed control and emulsifiable concentrates $\square\square\square\square                                $	
11.0 Insect Pests of Crops emulsifiable concentrate to U.%C  The student will be able to: □□□□ 13.07 Identify the parts of a field sprayer	
0 1 2 3 □□□□ 13.08 Discuss the climatic and other factors affecting pesticide	
□□□□ 11.01 List ways that insects cause losses in plants application	
□□□□ 11.02 List ways that insects cause losses in plants application □□□□ 11.02 List beneficial effects of insects □□□□ 13.09 Discuss the types of protective clothing and equipment needed for	ır
□□□□ 11.03 Identify the three regions of an insect body pesticide applications	•
$\Box\Box\Box\Box$ 13.10 Name the steps to follow in case of pesticide poisoning	

0 1 2 3		
	13.11	Discuss regulations/laws governing the use and disposal of pesticides
	13.12	List reasons for keeping records of pesticide use
	13.13	Describe the purpose of pesticides
	13.14	Demonstrate safe application and storage of pesticides
	13.15	Discuss classification of herbicides by selectivity, mode of action, and time of application
14.0	Seed Se	lection
17.0	Seeu Se	action
14.0		dent will be able to:
0 1 2 3		
	The stud	lent will be able to:
	The stud	lent will be able to:  List factors to consider for selecting high quality seed
0 1 2 3	The stud 14.01 14.02	lent will be able to:  List factors to consider for selecting high quality seed  Discuss conditions that may exist when good seed is not selected
0 1 2 3	The stud 14.01 14.02 14.03	lent will be able to:  List factors to consider for selecting high quality seed Discuss conditions that may exist when good seed is not selected List and describe the certifiable seed classes
0 1 2 3	The stud 14.01 14.02 14.03 14.04	List factors to consider for selecting high quality seed Discuss conditions that may exist when good seed is not selected List and describe the certifiable seed classes List information required on certified seed tags