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:	 No Exposure - no information nor practice provided during training program, complete training required. Exposure Only - general information provided with no practice time, close supervision needed and additional training required. Moderately Skilled - has performed independently during training program, limited additional training may be required. Skilled - 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

□□□□ 01.05 Explain why nature's resources once seemed limitless, and why this is no longer true □□□□ 02.06 Discuss what would have happened to our fish and game animal populations if sport hunters and fisherman had not fought market hunters □□□□ 01.07 Identify the land area of the United States, indicating how much is suitable for farming, and how much is suitable for crop production □□□ 01.08 Explain why there is a water shortage problem in this country □□□□ 01.09 Indicate how many species of wild animals, birds, and fish have become extinct in this country since colonial times □□□□ 01.10 Diagram the forested area of this country 300 years ago compared to today, and explain how our smaller forest area produces more wood today □□□□ 01.11 Explain what the direct or indirect source of most of our energy resources is □□□□ 02.11 Explain why soil and water conservation is a federal concern resources in the past our natural resources in the past pour natural resources in the past our natural resources in the past our natural resources in the past pouchs and spand animal populations if sport hunters and fisherman had not fought market hunters □□□□ 02.07 Indicate who pays for wildlife conservation in this country simportant □□□□ 02.08 Explain what the Weeks Law of 1911 was, and why it was important □□□□ 02.09 Explain the concept of a soil and water conservation other landowners work to solve their soil and water conservation other landowners work to solve their soil and water conservation problems	01.0	The student will be able to:		02.0	A History of Conservation in the United States The student will be able to:	
definitions	-					
□□□□ 01.02 Define and discuss the concept of natural resources □□□□ 01.03 List and describe the major categories of natured resources in America □□□□ 02.04 Describe the role of the federal government in conservation □□□ 01.05 Explain what makes something a natural resource □□□ 01.05 Explain why nature's resources once seemed limitless, and why this is no longer true □□□ 01.06 Describe how the usefulness of a natural resource change over time, and what factors most effect their usefulness □□□ 01.07 Identify the land area of the United States, indicating how much is suitable for farming, and how much is suitable for crop production □□□ 01.08 Explain why there is a water shortage problem in this country □□□ 01.09 Indicate how many species of wild animals, birds, and fish have become extinct in this country since colonial times □□□ 01.11 Explain what the direct or indirect source of most of our energy resources is □□□ 02.11 Explain why soil and water conservation is a federal concern □□□ 02.12 List the three needs that early water management		01.01				
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LILILIA 01.12 List our key mineral resources and what their known reserves are America centered around		01.12	List our key mineral resources and what their known reserves are			America centered around

03.0	Principles of Ecology-Ecosystem Structure		0 1 2 3		
	The student will be able to:			04.08	Explain the implications of decreasing biomass in the food chain
0 1 2 3					and how affects the number of higher-level consumers
		Define ecology and explain its subdivision structure		04.09	Define the terms gross primary productivity and net primary
	03.02	List the characteristics of all living organisms, describe the term			productivity, explaining the most productive regions of the earth
		irritability and give examples of irritability			and why or why not these can be tapped for food
	03.03	Describe the process of evolution including the concepts of		04.10	Draw the carbon cycle, and describe what happens during the
	0004	natural selection and adaption		0.4.4.4	various parts of the cycle
	03.04	Explain how genetic change could result in the major changes that		04.11	Draw the nitrogen cycle and list organisms that fix atmospheric
		occur in evolution and what role the environment plays in			nitrogen and why this is critical to the operation of the nitrogen
	02.05	evolution		04.12	cycle
	03.05	Define the term biosphere and explain why the biosphere is considered a closed system naming some closed systems			Draw and describe the phosphorus cycle Define the following terms: predation, commensalism, mutualism,
	03.06	Define the term biome and explain what determines the type of		04.13	neutralism and competition, comparing them for similarities and
	03.00	vegetation in a biome			differences
	03.07	Define the term ecosystem and explain some common features of			uniciciees
	05.07	all ecosystems	05.0	Princir	oles of Ecology-Ecosystem Balance and Imbalance
	03.08	Describe the abiotic components of the ecosystem and how these			dent will be able to:
		factors affect plant and animal life	0 1 2 3		
	03.09	Discuss the concept "range of tolerance"		05.01	Describe ecosystem stability and give examples of stable
	03.10	Explain a limiting factor and tell what the limiting factor is in			ecosystems
		most terrestrial ecosystems		05.02	If you were to examine a mature ecosystem over the course of 30
		Discuss the terms niche and habitat			years at the same time each year, discuss why you would expect
	03.12	Discuss the statement: no two organisms can occupy the same			the number of species in the ecosystem and the population size of
		niche in the same habitat			each of these species to be the same from year to year or not
	03.13	Explain an ecological equivalent and give an example			Define inertia and resilience
0.4.0	.			05.04	Explain environmental resistance and the role it plays in
04.0		oles of Ecology-Ecosystem Function dent will be able to:		05.05	population balance and ecosystem balance
0 1 2 3	i ne stu	dent will be able to:		05.05	Define the term species diversity and give evidence that species diversity affects ecosystem stability and any evidence
	04.01	Explain a food chain, discussing the two major types of food			contradicting this idea
	04.01	chain, how they are different and how they are similar		05.06	Discuss a mature ecosystem and its major features
	04.02	Sketch several simple food chains and indicate all producers and		05.07	Describe temporary imbalances caused in ecosystems you are
	04.02	consumers		05.07	familiar with and how the ecosystem returns to normal
	04.03	Explain microconsumers and why they are important		05.08	Explain succession and why one biotic community eventually is
		Explain biomass and how it is measured			replace by another during succession
		Discuss why biomass decreases as we ascend the food chain		05.09	Discuss a pioneer community
	04.06	Define the following terms: consumer, producer, trophic level and		05.10	Discuss why environmental resistance changes during succession
		food web			as one community is gradually replaced by another and in what
	04.07	Explain cellular respiration and why carbon dioxide is released			ways human populations change environmental resistance and
		during respiration in producers and consumers			how that affects our population

0 1 2 3			0 1 2 3		
	05.11	Describe how introducing and removing competitors into an		08.03	Date and describe the following Acts that relate to range science:
		ecosystem can affect ecosystem stability and give examples			a. Homestead Act
	05.12	Discuss why it is necessary for humans to simplify their			b. Timber Culture Act
		ecosystem and how it may be avoided and give some examples			c. Desert Land Act
					d. Enlarged Homestead Act
06.0		ots of Natural Resources Management			e. Stock Grazing Homestead Act
	The stu	dent will be able to:			f. Forest Reserve Act
0 1 2 3					g. Soil Erosion Service
	06.01	Match the terms and concepts of natural resource management		08.04	Explain what happened to range management during World
		with their definitions			War I
	06.02	Explain the differences between nonexhaustible, renewable, and			
		exhaustible natural resources	09.0	Histor	y and Policies of Range Science After 1933
	06.03	Discuss the concept of balance in natural ecosystems		The stu	ident will be able to:
	06.04	Discuss the role of food chains in maintaining balanced	0 1 2 3		
		ecosystems		09.01	Date and describe why the Taylor Grazing Act was established
	06.05	Discuss the role of ecology in human efforts at natural resources		09.02	List the three goals of the Taylor Grazing Acts Administration
		management		09.03	Date and describe why range inventories were taken
	06.06	Define an ecosystem		09.04	Explain what the BLM did to prevent over/grazing
	06.07	Define man's ecosystem		09.05	Describe and explain commensurate and priority property
	06.08	Discuss some ways that nature is balanced		09.06	Explain why grazing permits were allocated
	06.09	Trace the human population level over the past 8000 years		09.07	Define carrying capacity
	06.10	Discuss differences between conservation and preservation		09.08	Date and describe the major legislation that stimulated range
					restoration and management
07.0	Introdu	uction to Range Science		09.09	Date and describe Land Adjustment and Utilization projects
	The stu	dent will be able to:		09.10	Date and describe the Halogeton Control Act
0 1 2 3					
	07.01	Define or describe the terms associated with range science	10.0		Classification
	07.02	List and describe the various uses of range lands		The stu	ident will be able to:
	07.03	Describe the most common limiting factor associated with	0 1 2 3		
		rangeland		10.01	Summarize each type of physical range classification
	07.04	List the approximate amounts of rangeland in the world, the		10.02	Describe the range vegetation in Idaho as described by the Forest
		United States, and Idaho			Service after 1911
	07.05	Identify the regions or the states consisting of the most range land		10.03	List 10 of the 18 forage types that were designated to cover the
					western range region, by the Interagency Range Survey
08.0	History	y and Policies of Range Science Before 1934			Committee
	The student will be able to:			10.04	List the vegetation units occurring in Idaho, as described by
0 1 2 3					Kuckler
	08.01	List the opportunities that the western ranges offered early		10.05	Describe the best basis for obtaining uniformity in classification
		pioneers		10.06	Define or describe the terns associated with range classification
	08.02	Describe the effects cattle and sheep had on rangelands from 1825		10.07	Summarize the vegetative features of each vegetative zone in
		- 1886			Idaho

11.0	- · · · · · · · · · · · · · · · · · · ·		0 1 2 3	12.06	List the five types of information provided by a general inventory
0 1 2 3	The student will be able to:				List the five types of information provided by a range inventory Explain the primary purpose of a range inventory
	11.01	List and describe the four principles of a grazing system			Describe the term sampling error and explain how it occurs and
		List and describe the loar principles of a grazing system List and describe the six objectives of a grazing system		13.06	how it may be reduced
		Define the terms associated with grazing systems		13.09	List and describe the factors that are included in a vegetational
		Describe the five requirements of a successful grazing system		13.07	inventory
		List and describe the advantages and disadvantages of the grazing		13.10	Describe plant dominance, its attributes, and how it is measured
		systems presented			1
			14.0	Carryi	ng Capacity
12.0		and Ecology and Physiology		The stu	dent will be able to:
	The stu	dent will be able to:	0 1 2 3		
0 1 2 3					Explain what is meant by the term carrying capacity
		List and describe the three climatic factors		14.02	List the factors that are used to determine the carrying capacity of
		Define soil, soil texture, and soil structure			a particular area
		List the five soil forming factors			Explain the term proper use factor
		List and describe the two types of range soils			Describe how an animal unit and animal unit month are measured
	12.05	List and describe the four topographic factors and how they affect			List the animal equivalents for common range wildlife
		an ecosystem			Describe limited stocking rate and how it is used
		Describe the three types of fire climax communities		14.07	Explain range condition and trend assessment and how they are
	12.07	List the entropic factors and describe their effects on the		4.4.00	related
	12.00	ecosystem		14.08	Explain condition classifications and how index ratings are used
		Indicate the best measure of sight capacity		1.4.00	to assess them
	12.09	List the four factors involved in the physical description of an		14.09	Describe the difference between apparent trend estimates and true
	12.10	ecosystem Describe the two interactions within a plant community		14.10	trends
		Describe the two interactions within a plant community Describe the three primary concerns in the management of an		14.10	Explain a climax condition is determined in a range community
	12.11	ecosystem or plant community	15.0	Range	Improvement
	12 12	Define terms associated with range ecology	13.0		dent will be able to:
		Describe the regression of plant cover	0 1 2 3	THE Sta	dent win be able to.
		Describe physiological disturbance and composition change		15.01	Explain the two types of range improvements, indirect and direct
	12.11	Describe physiological distarbance and composition change			Explain the relationship between range management and range
13.0	Range	Inventories			improvement
		dent will be able to:		15.03	List the two ecological principles that range improvements must
0 1 2 3					be based on
	13.01	List and describe the four types of range inventories		15.04	List and describe the seven reasons for range improvement
	13.02	Explain what is meant by primary and secondary site degradation		15.05	Identify those plants that are undesirable in a typical range
	13.03	Explain what is meant by the terms range condition, and trend and			community and explain the accepted measures used to control
		how they are related			them
	13.04	Describe a multiple use survey and its uses			
	13.05	Explain what a range appraisal is			