

Directions:

Evaluate the student by checking the appropriate number or letter to indicate the degree of competency. The rating for each task should reflect **employability readiness** rather than the grades given in class.

Rating Scale:

- 3 Mastered** – can work independently with no supervision
- 2 Requires Supervision** – can perform job completely with limited supervision
- 1 Not Mastered** – requires instruction and close supervision
- N No Exposure** – no experience or knowledge in this area

3	2	1	N	A. Careers	Notes:
				1. Explain professional conservation career opportunities and their requirements with an emphasis on forestry careers	
				2. Explain technical forestry career opportunities and their requirements	
				Other:	

3	2	1	N	B. Forest Plant Identification	Notes:
				1. Identify common Missouri trees without the use of a key	
				2. Describe and use a plant identification key	
				3. Describe the silvics of common Missouri trees	
				4. Describe different tree uses	
				5. Describe Missouri forest types	
				Other:	

3	2	1	N	C. Forest Measurement	Notes:
				1. Interpret surface features using aerial photographs and topographic maps	
				2. Locate a tract of land by using a map and the legal description	
				3. Make measurements by chaining, pacing, and using a hand compass	
				4. Estimate diameter at breast height, tree height, and basal area per acre	
				5. Describe and estimate site index	
				6. Describe stand density and determine stocking level	
				7. Estimate the volume of standing timber	
				8. Identify criteria used in grading trees	
				Other:	

3	2	1	N	D. Silvicultural Practices	Notes:
				1. List factors to consider when selecting a tree species for planting	
				2. Describe the advantages and disadvantages of different site preparation methods	
				3. Identify and select proper methods for planting and seeding trees by hand and machine	
				4. Design a windbreak	
				5. Describe principles of natural regeneration	
				6. Describe intermediate cuttings and apply tree deadening methods	
				7. Describe and demonstrate pruning techniques	
				8. Demonstrate chain saw safety and maintenance procedures	
				Other:	

3	2	1	N	E. Forest Resource Protection	Notes:
				1. Describe watershed concepts and protection measures	
				2. Describe the causes, effects, behavior factors, and control methods associated with forest fires	
				3. Describe common insect and disease problems in Missouri forests	
				4. Assess how forest management can be used to improve wildlife habitat	
				5. List the effects recreation can have on the forest	
				Other:	

3	2	1	N	F. Forest Management Plan	Notes:
				1. Identify sources of forestry assistance available to landowners	
				2. Prepare a forest management plan	
				Other:	

3	2	1	N	G. Leadership and Personal Development for Advanced Students	Notes:
				1. Develop a resume and complete a job application	
				2. Develop a plan for finding a job	
				3. Describe how to apply and interview for a job	
				4. Describe the characteristics needed to develop desirable personal and social skills	
				5. Describe the importance and process of developing better human relationships	
				Unit: Explore a career area by investigating entry-level job opportunities at a local agricultural business and writing a résumé and letter of application for a position.	
				Other:	

3	2	1	N	D. Using the <i>Missouri Agricultural Record Book for Secondary Students</i>	Notes:
				1. Complete forms needed to open the Missouri Agricultural Record Book for Secondary Students	
				2. Complete a budget for the SAE program	
				3. Complete inventory and financial statement forms for the Missouri Agricultural Record Book for Secondary Students	
				4. Complete receipt and expenditure forms in the Missouri Agricultural Record Book for Secondary Students	
				5. Complete additional forms in the Missouri Agricultural Record Book for Secondary Students	
				Unit: Demonstrate the ability to use selected forms in the <i>Missouri Agricultural Record Book for Secondary Students</i> by using a list of sample entries to complete the applicable forms in the book.	
				Other:	