

Name: \_\_\_\_\_

**Agricultural Power II**

**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

NOTE: All competencies involving safety require a Number 3 rating.

<b>3</b>	<b>2</b>	<b>1</b>	<b>N</b>	
				The student has mastered the related competencies of Agricultural Science I and II.

<b>3</b>	<b>2</b>	<b>1</b>	<b>N</b>	<b>A. Principles of Operation</b>	<b>Notes:</b>
				1. Explain the operating principles of multicylinder gasoline engines	
				2. Explain the operating principles of multicylinder diesel engines	
				3. Identify safety procedures to follow when servicing & repairing multicylinder engines	
				Other:	

<b>3</b>	<b>2</b>	<b>1</b>	<b>N</b>	<b>B. Testing and Analyzing Multicylinder Components</b>	<b>Notes:</b>
				1. Test & analyze gasoline fuel system	
				2. Test & analyze an ignition system	
				3. Test & analyze a cooling system	
				4. Test & analyze a hydraulic system	
				5. Test & analyze a steering system	
				6. Test & analyze an air intake & exhaust system	
				7. Test & analyze a compression system	
				8. Test & analyze a lubrication system	
				9. Test & analyze an injection system	
				10. Test & analyze a governor system	
				11. Test & analyze an electronic system	
				12. Test & analyze a comfort equipment system	
				13. Test & analyze an electrical system	
				Other:	

<b>3</b>	<b>2</b>	<b>1</b>	<b>N</b>	<b>C. Servicing a Multicylinder Engine</b>	<b>Notes:</b>
				1. Service & repair a gasoline fuel system	

					2. Service & repair an ignition system
					3. Service & repair a cooling system
					4. Service & repair a hydraulic system
					5. Service & repair a steering system
					6. Service & repair an air intake & exhaust system
					7. Service & repair a compression system
					8. Service & repair a lubrication system
					9. Service & repair an injection system
					10. Service & repair a governor system
					11. Service & repair an electronic system
					12. Service & repair a comfort equipment system
					13. Service & repair an electrical system
					Other:

<b>3</b>	<b>2</b>	<b>1</b>	<b>N</b>	<b>D. Servicing a Power Train</b>	<b>Notes:</b>
				1. Service a transmission	
				2. Service a differential	
				3. Service a final drive	
				4. Service wheel bearings	
				5. Check & adjust tires & wheels	
				6. Check & adjust a clutch	
				7. Identify types of brakes	
				8. Check & adjust P.T.O	
				Other:	

3	2	1	N	<b>E. Leadership and Personal Development for Advanced Students</b>	<b>Notes:</b>
				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	<b>D. Using the <i>Missouri Agricultural Record Book for Secondary Students</i></b>	<b>Notes:</b>
				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:	