



SCOUTS PARTICIPATING IN A SCOUTMASTER BUCKY MERIT BADGE OPPORTUNITY (ONLINE OR IN PERSON), PLEASE CONSIDER ALSO USING THE FARM MECHANICS MERIT BADGE CLASS PREPARATION PAGE FOR CLARIFICATIONS, INSIGHTS, AND EXPECTATIONS.

https://scoutmasterbucky.com/merit-badges/farm-mechanics/farm-mechanics-cpp.pdf

FARM MECHANICS MERIT BADGE WORKBOOK		
REQUIREMENT 1a:	Discuss with your counselor the safety equipment, tools, and clothing used while checking or repairing farm equipment. Use this equipment, tools, and/or clothing (when needed or called for) in meeting the requirements for this merit badge.	
Notes:		





REQUIREMENT 1b:	Draw a plan showing a well-equipped farm shop. Point out the shop's mandatory safety devices and features.
Notes:	





REQUIREMENT 1c:	Find all the universal warning and safety symbols on a piece of equipment and explain what they mean.
Notes:	
DEOLUDEMENT 4.4.	Describe what a sefety data about (CDC) is and tall why it is used. Obtain the CDC for any
REQUIREMENT 1d:	Describe what a safety data sheet (SDS) is and tell why it is used. Obtain the SDS for any engine coolant, oil, grease, fuel, hydraulic or transmission fluid, or other flammable or hazardous materials you use in meeting the requirements for this merit badge.
Notes:	





REQUIREMENT 2a:	Explain how power is produced or transferred in a diesel engine.
Notes:	
REQUIREMENT 2b:	Explain how power is produced or transferred in a hydraulic system.
Notes:	
REQUIREMENT 2c:	Explain how power is produced or transferred in a transmission or any other power system.
Notes:	





DO TWO OF THE FOLLOWING (3A, 3B, 3C, or 3D) FOR REQUIREMENT 3	
REQUIREMENT 3a:	Poplose the handle of any tool found on the form
Notes:	Replace the handle of any tool found on the farm.
Notes.	
REQUIREMENT 3b:	Organize a tool rack or a storage system for nails, bolts, nuts, and washers.
Notes:	
REQUIREMENT 3c:	Using a hand file, properly dress the mushroomed head of a chisel or punch.
Notes:	
REQUIREMENT 3d:	Using a hand file, correctly dress a screwdriver tip.
Notes:	





DO ONE OF THE FOLLOWING (4A, 4B, or 4C) FOR REQUIREMENT 4

REQUIREMENT 4a:	On an engine-powered machine: Grease all fittings, change the oil, and oil filter, clean the air filter, clean the radiator fins, and replace the fuel filters.
Notes:	
REQUIREMENT 4b:	For any engine-powered machine, create a preoperational checklist; include checking the engine coolant, engine oil, hydraulic and/or transmission fluid, and battery voltage (using a voltmeter). Using your checklist, conduct a preoperational check of that machinery or equipment.
Notes:	
REQUIREMENT 4c:	Prepare any farm machine for winter storage.
Notes:	





RE	EQUIREMENT 5:	Visit an implement dealer. Interview the good preventive maintenance. Ask why i damage. Report what you learn.		
lm	plement Dealer:			
lm	plement Dealer Locati	on (address):		
Da	te of Visit to Implemer	nt Dealer:		
	Implement Dealer Represer	stativa's Name	Phone	
	Implement Dealer Represer	itative's Name	PHONE	
	Implement Dealer Represer	ntative's Signature	Date	visited
No	tes:			





DO ONE OF THE FOLI	OWING (6A, 6B or 6C) FOR REQUIREMENT 6
DECLUDEMENT Co.	Evoluin and atom in anniatory and analysis for tightonian budge, its fittings
REQUIREMENT 6a:	Explain each step in maintenance procedures for tightening hydraulic fittings.
REQUIREMENT 6b:	Explain each step in maintenance procedures for checking the air filter.
REQUIREMENT 6c:	Explain each step in maintenance procedures for cleaning a work piece with a wire-brush wheel.
Selected Requirement O	ption:
6A Tightening Hydr	aulic Fittings 6B Checking the Air Filter 6C Cleaning a work piece with a wire-brush wheel
Maintenance Procedure	Steps:





REQUIREMENT 7:	Find out about three career opportunities in farm mechanics.	
Career Opportunity #1:		
Career Opportunity #2:		
Career Opportunity #3:		
REQUIREMENT 7:	Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor.	
Selected Career Opportunity:		
Educational Requirements:		
Training Requirements:		
Experience Requirements:		
REQUIREMENT 7:	Explain why this career might interest you.	
Notes:		