

STATE OF MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY BUREAU OF PARKS AND LANDS SNOWMOBILE PROGRAM 22 STATE HOUSE STATION AUGUSTA, MAINE 04333-0022

GROOMER OPERATOR CERTIFICATION QUIZ

In order to successfully complete this certification, the groomer operator must answer <u>56 questions correctly.</u> To qualify for a Capital Equipment Reimbursement Grant groomers must be certified.

Name:	Date:		
Club:	(PRINT CLEARLY)		
Trail Maste	r or President's Signature:		
1. Snowmobile trail grooming is:			
	a) the single largest expense of a snowmobile trail program		
	b) using mechanical equipment to produce a high density snow surface		
	c) very demanding work that requires your undivided attention at all times		
_	d) all of the above		
2. Moguls			
	 a) similar to washboards on a gravel road b) patterns of mounds and dips formed in the trail's snow surface perpendicular to the direction of a snowmobile's travel 		
	c) fun to ride		
	d) undesirable to snowmobilers		
	e) a, b and d above		
_	f) all of the above		
	a) cut off at the top and filled in the bottom		
	b) completely cut away		
	c) enhanced with the front blade		
	d) all of the above		
4. The four basic operations of trail grooming include removing the mogul, processing and compressing the snow and set-up.			
	True		
	False		
	nust roll or churn to be processed with a grooming drag.		
	True		
	False		
6. Trail set up can be similar to freezing a tray of ice cubes – after an hour you may have a crust on the surface of the ice cube but the center isn't frozen, so you have to wait a few more hours for the ice cubes or the trail to fully freeze solid.			
	True		
	False		

7. It generally takes a couple of hours or more of being undisturbed for snow to bond and reach full strength.		
True		
□ False		
8. The length of time needed for a trail to set-up correctly can vary from two to six or even more than ten hours, depending upon the temperature and moisture content of the snow.		
True		
□ False		
9. Grooming implement □ a) drags ar □ b) groomer □ c) rollers ar □ d) a and c ar □ e) a, b, and	nd planers rs nd compactor bars above	
10. The purpose of the from the trail to make□True□True□False	he front blade on a groomer is to clear rocks, stumps, and downed trees e it safe.	
 11. The primary purpose of a groomer is to provide the power to pull a grooming implement like a drag, roller, or to carry a compactor bar across the top of the snow. True False		
 12. The groomer is the most important piece of the grooming equipment and has a greater impact on proper trail grooming than does a drag or roller used behind it? True False 		
13. If you were to use only one grooming implement to build a trail that is both smooth and level, it would in most cases be a: a) multi-blade drag b) compactor bar c) single blade drag d) front blade 		
 14. A very simple, lightweight implement that is very maneuverable and useful for initial trail set-up early in the season or deep snow events is a: a) multi-blade drag b) compactor bar or roller c) single blade drag d) front blade 		

15. Overloading the cargo area on a groomer can impact the vehicle's weight, flotation, and center of gravity.		
	True False	
 16. Too low of a ground pressure can cause a groomer to sink into snow rather than stay on top of the snow. True False 		
17. The frame of a drag must be rigid and rectangular to prevent it from cutting or compacting unevenly. \Box		
	True False	
 18. The cutting blades on a multi-blade drag are typically mounted in a "stepped" position, downward from front to rear. True 		
	False	
19. The m	 aximum width of a grooming implement like a drag is: a) dictated by the maximum width of the trails to be groomed b) dictated by the width and power of the groomer c) wider is better d) generally narrower than the groomer e) a and b above f) none of the above 	
 20. The tracks on a groomer must be large enough to keep it on or near the surface of snow. True False 		
21. A groo hillsides.	omer with a high center of gravity will be stable and safe to operate on steep	
	True False	
22. When a vehicle breaks traction, spins out, and gets stuck, it happens because the force required to shear the snow is less than the force required to pull the load.		
□ 22. The ev	False	
23. The of 	verall weight of a groomer is: a) unimportant b) can be compensated for by track area c) can cause problems when crossing bridges and ice d) b and c above e) none of the above	

24. Ensur	Fing the safety of groomer operators includes: a) making sure they are prepared for trouble by carrying safety and emergency equipment b) providing them with communication equipment and requiring them to file a "trip plan" c) a good preventative maintenance program d) requiring that they wear seat belts e) a and b above f) a, b, c, and d above	
25. New e □ □	equipment helps compensate for poor equipment operators. True False	
 26. Budget, weather, and traffic patterns should be considered when developing and managing weekly grooming schedules. True False 		
 27. Groomer operators should never operate equipment while under the influence of drugs or alcohol because their abilities and judgment will be impaired. True False 		
 28. When parked on the trail, always shut the groomer's lights off to avoid blinding or distracting oncoming snowmobile traffic. True False		
29. A Trai	 a) directs all aspects of a grooming program & establishes priorities & schedules b) is an important position for a successful grooming program c) is anyone who wants to be in charge d) should understand heavy equipment operation and maintenance, understand snow mechanics, and be able to work with people e) a, b and d above f) all of the above 	
 30. Mid-day grooming in high traffic areas is useful to keep moguls from getting too deep and promote safety. □ True □ False 		
31. The fo	 bllowing factors should be considered when establishing grooming priorities: a) available labor and operating budget b) number of groomers available c) total miles/kilometers of trail to be groomed d) snowmobile traffic patterns e) locations of businesses, parking areas, and attractions f) length of season, snow conditions, and weather patterns g) all of the above 	

32. The ground pressure and weight of a groomer allows it to safely cross frozen bodies of water.		
□ True □ False		
33. The faster the grooming speed, the better the trail quality and durability will be.		
□ False		
 34. The amount of snow depth required to begin grooming operations will vary by area and i affected by the type of terrain and by the type of snow. Generally, there should be at least of snow to begin grooming operations that are effective and worth the cost of grooming. a) 2-4 inches b) 4-6 inches c) 8-12 inches d) 18-24 inches 		
 35. Groomer operators should pay special attention to curve berms and try to work down the high outside edges. □ True □ False 	e	
 36. It is okay to groom against snowmobile traffic on the left side of the trail if that side is rougher than the right side of the trail. True False 		
 37. The best temperature for grooming with a drag is between 5 and 25 degrees F □ True □ False 		
38. The most effective grooming speed with a drag is: □ a) 3 to 4 mph □ b) 5 to 10 mph □ c) 10 to 12 mph		
 39. Grooming at night will generally produce the best quality trail because temperatures are typically colder so the snow will flow better and set up harder; traffic volumes are also typically at their lowest which helps provide set up time. □ True □ False 		
 40. Mirrors on a groomer are typically useless and aren't important since there isn't a need to see behind the groomer. □ True □ False 		
 41. It is okay to dump snow from the groomer on roads and driveways because it helps warn motorists and landowners that they are crossing a snowmobile trail. True False 		

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 42. A groomer should descend steep hills in the same gear that is used to climb the hill. □ True □ False 		
 43. Normally, unplowed roads should never be groomed wider than twice the width of the grooming equipment. □ True □ False 		
 44. If the groomer becomes stuck: a) quickly give it more throttle and spin the tracks b) don't spin the tracks c) gently rock the vehicle back and forth, packing the snow d) consider unhooking the drag – sooner versus later e) a shovel may be needed f) all of the above except a g) a, c, d, e, and f above 		
 45. When backing up with a grooming drag on the trail, a pile of snow is often created. It is okay to leave this pile of snow on the trail since snowmobiles will knock it down. □ True □ False 		
 46. When grooming trails, always: a) stay on the trail with the grooming equipment b) feel free to pick new routes to provide variety since the groomer will go through anything c) turn around only where there's ample turning room and it is known that the snow base will support the equipment, preferably where turn-a-rounds have been made before d) a and c above e) a, b, and c above 		
 47. If there is a lack of new snow in the middle of the trail, the options could include: a) set the drag blades to pull snow in from the trail edges b) use the front blade on the groomer to direct snow in from the right edge of the trail c) don't bother grooming – put the wheels down until you find snow d) operate the groomer on the outside edge of the trail e) a, b and d above f) b and d above 		
 48. Never stop to remove rocks, logs, limbs or other debris that is lying on or in the trail surface because they provide solid filler that helps the trail last longer. True False		

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49. When snow is spilling out the side of a drag, it means that the drag is carrying too much snow, likely set too low, and is not working effectively.			
	True False		
 50. A groomer operator should be cautious about following a snowmobile track across an open area. True False 			
51. Comm 	a) going too slow b)spending too much time warming up the engine c) performing unwarranted pre-operation inspections d) unauthorized modifications e) none of the above f) a, b, c, and d above		
	 ntative maintenance can help prevent downtime and keep equipment safe to operate. main elements of a good preventative maintenance program include: a) measurement, fueling, tinkering and replacement b) monitoring, greasing, tuning and overhauls c) inspection, lubrication, adjustment and repair d) surveillance, servicing, alignment and rebuild 		
53. Beford leaks. □	e operating any grooming equipment, always check all fluid levels and check for True False		
 54. If you identify a repair that needs to be made while doing a pre-operation inspection, go ahead and do the scheduled grooming run and report the condition to the Grooming Manager when you return. □ True □ False 			
55. When power. □ □	operating a vehicle for the first time, run it as fast as it will go to see if it has enough True False		
 56. A groomer should be shut off as quickly as possible after a grooming shift to conserve fuel. True False 			
	remove ice or snow that has built up on grooming equipment since it might damage ment; plus the added weight is good for trail compaction. True False		

	omers should be stored inside or have their tracks removed during the off-season to V light damage to rubber tracks and belts. True False
themsel	omer operators' only purpose is to groom trails and therefore should not concern lves with watching for unsafe situations or missing signs along the trails or reporting tuations to the Trail Master or Project Director. True False
60. Reco for it. □	ord keeping is a nice thing to do and should be done only when an operator has time True False
 61. It is important to track fuel, labor, maintenance, and other operating costs, along with the number of hours that are required to groom an area's trails, to determine per hour or per mile/kilometer grooming costs. True False	
 62. A Daily Operator's Log can: a) be a waste of time b) help document trails groomed, unusual events, and equipment use c) increase liability d) none of the above 	

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