

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)
	or President's Signature:
1. Snowmo	bile trail grooming is:
	a) the single largest expense of a snowmobile trail program
	o) 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	ıre:
	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
l_ '	d) undesirable to snowmobilers e) a, b and d above
۱ `) all of the above
3. Moguls s	should be: 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	
	-alse
5. Snow mu	ust roll or churn to be processed with a grooming drag.
	True
□ F	-alse
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.	
	Гrue
	-alse

7. It gener reach full □	rally takes a couple of hours or more of being undisturbed for snow to bond and strength. True False
	igth of time needed for a trail to set-up correctly can vary from two to six or even ten hours, depending upon the temperature and moisture content of the snow. True False
9. Groomi	ing implements include: a) drags and planers b) groomers c) rollers and compactor bars d) a and c above e) a, b, and c above
	urpose of the front blade on a groomer is to clear rocks, stumps, and downed trees trail to make it safe. True False
	rimary purpose of a groomer is to provide the power to pull a grooming implement g, roller, or to carry a compactor bar across the top of the snow. True False
	roomer is the most important piece of the grooming equipment and has a greater proper trail grooming than does a drag or roller used behind it? True False
•	were to use only one grooming implement to build a trail that is both smooth and ould in most cases be a: a) multi-blade drag b) compactor bar c) single blade drag d) front blade
	simple, lightweight implement that is very maneuverable and useful for initial trail rly 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 lotop of the	ow of a ground pressure can cause a groomer to sink into snow rather than stay on snow. True False
17. The fr unevenly. □	ame of a drag must be rigid and rectangular to prevent it from cutting or compacting. True False
	utting blades on a multi-blade drag are typically mounted in a "stepped" position, d 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 tr □ □	acks on a groomer must be large enough to keep it on or near the surface of snow. True False
21. A grod hillsides. □	omer with a high center of gravity will be stable and safe to operate on steep True False
	a vehicle breaks traction, spins out, and gets stuck, it happens because the force to shear the snow is less than the force required to pull the load. True False
23. The o	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	ring 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	
	ner operators should never operate equipment while under the influence of drugs or ecause 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 & schedulesb) is an important position for a successful grooming programc) 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	ollowing 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 fa □	ster the grooming speed, the better the trail quality and durability will be. True False
34. The amount of snow depth required to begin grooming operations will vary by area and is 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	
	kay to groom against snowmobile traffic on the left side of the trail if that side is han the right side of the trail. True False
37. The bo	est temperature for grooming with a drag is between 5 and 25 degrees F True False
38. The m	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	

42. A grod □	omer should descend steep hills in the same gear that is used to climb the hill. True False
	ally, unplowed roads should never be groomed wider than twice the width of the equipment. True False
44. If the (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	e 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
	stop to remove rocks, logs, limbs or other debris that is lying on or in the trail ecause they provide solid filler that helps the trail last longer. True False

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 grod open area □	omer operator should be cautious about following a snowmobile track across an a. 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. Before operating any grooming equipment, always check all fluid levels and check for leaks. ☐ 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 operating a vehicle for the first time, run it as fast as it will go to see if it has enough power.	
	True False
56. A groomer should be shut off as quickly as possible after a grooming shift to conserve fuel.	
	True False
57. Never remove ice or snow that has built up on grooming equipment since it might damage the equipment; plus the added weight is good for trail compaction. ☐ True ☐ False	

	ners should be stored inside or have their tracks removed during the off-season to light damage to rubber tracks and belts. True False
59. Groomer operators' only purpose is to groom trails and therefore should not concern themselves with watching for unsafe situations or missing signs along the trails or reporting these situations to the Trail Master or Project Director. □ True	
	False
60. Recor for it. □	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 Dail □ □ □ □	y 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