## GROOMER OPERATOR CERTIFICATION QUIZ

IN ORDER TO SUCCESSFULLY COMPLETE THIS CERTIFICATION, THE GROOMER OPERATOR MUST ANSWER  $\underline{\bf 56}$  QUESTIONS CORRECTLY.

Completed tests should be **signed by the Trailmaster** and returned to:

NH Bureau of Trails 172 Pembroke Road Concord, NH 03301

**Attn: Groomer Operator Certification** 

Name:	
	(Print first and last)
Club:	
Trailm Signat	naster/President ure:
	obile 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	are:
	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
3. Moguls	f) all of the above 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 the pressing the snow and set-up.
	True
	False
5. Snow m	ust roll or churn to be processed with a grooming drag.
	True
	False
crust on th	up can be similar to freezing a tray of ice cubes – after an hour you may have a ne surface of the ice cube but the center isn't frozen, so you have to wait a few more he ice cubes or the trail to fully freeze solid.
	True
	False
7. It generates reach full s	ally takes a couple of hours or more of being undisturbed for snow to bond and strength.
	True
	False

	me needed for a trail to set-up correctly can vary from two to six or even urs, depending upon the temperature and moisture content of the snow.
☐ True	
False	
9. Grooming imple	ements include:
	and planers
b) groon	ners
c) rollers	s and compactor bars
d) a and	l c above
10. The purpose of from the trail to m  True  False	of the front blade on a groomer is to clear rocks, stumps, and downed trees ake it safe.
	ourpose of a groomer is to provide the power to pull a grooming implement or to carry a compactor bar across the top of the snow.
False	
	s the most important piece of the grooming equipment and has a greater trail grooming than does a drag or roller used behind it?
False	
13. If you were to level, it would in n	use only one grooming implement to build a trail that is both smooth and nost cases be a:
a) multi-	blade drag
′ .	actor bar
	e blade drag
d) front I	blade
set-up early in the	lightweight implement that is very maneuverable and useful for initial trail season or deep snow events is a:
	blade drag
	actor bar or roller blade drag
d) front I	•
15. Overloading th	ne cargo area on a groomer can impact the vehicle's weight, flotation, and
center of gravity.	
True False	
16. Too low of a group top of the snow.	round pressure can cause a groomer to sink into snow rather than stay on
True	
False	
17. The frame of a unevenly.	drag must be rigid and rectangular to prevent it from cutting or compacting
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 maximum width of a grooming implement, such as a drag, is:  a) dictated by the narrowest 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		
20. The tracks on a groomer must be large enough to keep it on or near the surface of snow.  True False		
21. A groomer with a high center of gravity will be stable and safe to operate on steep hillsides.		
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 (drag and groomer).		
☐ True		
False		
23. The overall weight of a groomer:		
a) unimportant		
b) can be compensated for by track area		
c) can cause problems when crossing bridges and ice		
d) b and c above		
24. Ensuring 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 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 Trail Master:
a) is someone who directs all aspects of a grooming program and establishes priorities
and 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) All but c 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 following 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
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33. The faster 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 leastof snow to begin grooming operations that are effective and worth the cost of grooming.
a) 2-5 inches
b) 5-8 inches
c) 8-18 inches
d) 18-24 inches
35. Groomer operators should pay special attention to berms in curves and try to work down
the high outside edges.
True
False
36. It is recommended 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 15 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 drag should be more than 12 inches wider than the groomer.
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) consider getting out of the groomer and shovel
f) all of the above except a
g) all of the 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
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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 is ample turning room and it is known that the snow base
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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 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) use the drag to level the dirt and rocks f) a, 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
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, or going too fast, 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. Common operator abuses of tracked equipment include:
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) b and d above
52. Preventative maintenance can help prevent downtime and keep equipment safe to operate.  The four 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 significant 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 immediately 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
58. Groomers should be stored inside or have their tracks removed or covered during the off-season to avoid UV 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 Trail Administrator.  True False
60. Record keeping is a nice thing to do and should be done only when an operator has time 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 grooming costs.  True False
62. A Daily Operator's Log can:  a) be a waste of time b) help document trails groomed, unusual events, hours for GIA and equipment use c) increase liability d) none of the above

Thank you for taking part in NH's Groomer Operator Safety Awareness Training Program. Be safe on the trails and thank you for your time, efforts and energy to make the NH Snowmobile Trail System the best in the Northeast.

Completed tests need to be returned to the NH Bureau of Trails for grading and certificate issuance.