

# Performance Examination

INSPECTING A CHAIN SAW

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**TOPIC/EQUIPMENT:** Inspecting A Chain Saw

**CATEGORY:** Performance Examination

**POINTS POSSIBLE:** 100

**TIME ALLOWED:** 8 Minutes

**BEHAVIORAL OBJECTIVE:**

*Condition:* A chain saw, scrench, and grease gun

*Behavior:* The student will demonstrate the inspection, chain removal and replacement on a chain saw while wearing proper safety clothing.

*Standard:* With a minimum of 70% accuracy, within 8 minutes, according to the score sheet

**MATERIALS NEEDED:**

- One (1) - Chain saw
- One (1) - Scrench
- One (1) - Eye protection
- One (1) - Set of gloves
- One (1) - Set chain saw chaps
- One (1) - Grease gun with grease
- One (1) - Stop watch
- One (1) - Clip board
- One (1) - Manipulative performance test cover page
- One (1) - Score sheet per student

**PROCEDURES:**

The examination will begin when the student either verbally or by conduct performs any step of the examination. The examination will end when the student verbally indicates the examination is completed. The student will demonstrate the ability to remove chain cover and bar, then re-install returning chain saw to full service.

# Performance Examination

**SCORING:**

Points will be deducted for each step omitted, performed improperly, or performed out of sequence. Lettered procedures may be performed in any sequence within the numbered step without a loss of points. Steps designated by an asterisk (\*) must be performed or the student fails the examination. A score of zero (0) will be given if during the examination the student performs any step or procedure that would jeopardize the safety of personnel or damage the equipment.

**SPECIAL NOTES:**

Before the examination begins the student will be allowed to ask any clarifying questions and inspect the chain saw. Once the examination begins the evaluator shall not answer any questions or intercede in any way, unless safety violations occur that would injure personnel or equipment. Student will be wearing their ear protection and chaps at start of examination.

# Score Sheet

DATE \_\_\_\_ / \_\_\_\_ / \_\_\_\_ TEST # \_\_\_\_ RETEST # \_\_\_\_ UNIT # \_\_\_\_

STUDENT'S NAME \_\_\_\_\_

EVALUATOR'S NAME \_\_\_\_\_

## STEPS AND PROCEDURES

	<u>POINTS</u>
1. Don gloves	____ *
2. Ground chain saw on level working surface	____ 2
a. Do not drop	____ *
3. Loosen bar-nut(s) with srench	____ 1
4. Release chain tension with srench	____ 1
5. Remove bar nut(s)	____ 2
a. Placing on clean and secure location	
6. Remove chain brake side cover	____ 2
a. Placing on clean and secure location	
b. Ensuring guide bar and chain do not fall	
7. Remove exterior chain guide plate (if not attached to cover)	____ 1
8. Remove chain from guide bar	____ 2
a. Placing on clean and secure location	
9. Remove guide bar	____ 2
a. Placing on clean and secure location	
10. Remove interior side plate	____ 2
a. Placing on clean and secure place	

# Score Sheet

## POINTS

11. Inspect drive sprocket clutch assembly and chain catcher
- State, checking for:
- a. Excessive wear 1
  - b. Damage 1
  - c. Missing parts 1
12. Inspect and test bar oiler
- State, checking for:
- a. Passage free of debris and obstructions 1
  - b. Observe free flow (squirt) of oil
13. Inspect guide bar
- State, checking for:
- a. Sharp burrs 1
  - b. Driver channel for debris build up 1
  - c. Tip sprocket for missing teeth, free moving, excessive wear 1
  - d. Clear lubrication hole 1
14. Replace interior side plate 2
- a. Ensure lubrication hole alignment 1
15. Place guide bar on saw 2
- a. Aligning bar with mounting studs 1

# Score Sheet

	<b><u>POINTS</u></b>
16. Place chain on drive sprocket	<u>2</u>
a. Ensure rotational direction of chain is appropriate	<u>*</u>
17. Place chain on guide bar	<u>2</u>
a. Looping chain onto tip of guide bar	
b. Laying drivers into guide bar groove	
c. Ensure drivers are on or in drive sprocket	
18. Slide guide bar forward to remove chain slack	<u>1</u>
19. Align chain tensioner with guide bar	<u>2</u>
a. If on motor head	
20. Replace exterior chain guide plate (if not attached to cover)	<u>1</u>
a. Curved side out	
21. Replace chain brake side cover	<u>2</u>
a. Aligning chain tensioner if applicable at this time	
b. Ensure side plate fits flat to motor body	<u>2</u>
22. Replace bar nut(s) onto studs	<u>2</u>
a. Finger tight	<u>1</u>
23. Raise tip of bar with hand	<u>2</u>
a. To maximum travel point	
24. Adjust chain tension with srench	<u>2</u>
a. To chain saw manufacturer specification	

# Score Sheet

	<b><u>POINTS</u></b>
25. Check chain tension	<u>2</u>
a. Chain tension is tight	<u>4</u>
b. Turning chain freely with one gloved hand in direction of normal operation (bottom of bar chain toward motor, top of bar chain toward tip)	<u>*</u>
26. Tighten bar nut(s) with srench (to manufacturer specification)	<u>*</u>
a. Two finger grip on srench	<u>1</u>
b. Bar tip up fully	<u>1</u>
27. Lubricate bar tip with grease gun	<u>2</u>
a. Until grease shows outside of tip sprocket	
b. For each tooth of sprocket	
28. Remove gloves (optional)	<u>2</u>
a. From one or both hands	
29. Close choke	<u>2</u>
30. Remove air cleaner cover	<u>2</u>
a. Loosening the fasteners	
31. Remove air cleaner	<u>2</u>
32. Inspect air cleaner	
State, checking for:	
a. Cleanliness	<u>1</u>

# Score Sheet

	<b><u>POINTS</u></b>
b. Damage	___1
c. Gasket (if applicable)	___1
33. Inspect carburetor	
State, checking for:	
a. Debris and dirt in carburetor throat	___1
34. Inspect engine compartment	
State, checking for:	
a. Loose wires, nuts, screws	___1
b. Rubbing hoses, wires	___1
c. Loose or damaged spark plug	___1
35. Install air cleaner	___*
a. Ensure of proper seal	
36. Inspect exhaust muffler	
State, checking for:	
a. Loose parts	___1
b. Exhaust deflector in place (if applicable)	___1
c. Damage	___1
37. Inspect spark arrestor	
a. Proper size	___1

# Score Sheet

	<u>POINTS</u>
b. Clean	___ 1
c. Damage	___ 1
38. Install air cleaner cover	___ 2
a. Tightening all fasteners	___ 2
b. Tight seal	___ 2
39. Open choke fully	___ 1
40. Confirm ignition switch is in "OFF" position	___ *
41. Ground chain saw on ground	___ *
a. In upright position	___ 1
42. Place toe of foot into handle	___ 2
a. Holding chain saw in control	___ 2
43. Grasp handle bar firmly with thumb around bar	___ 1
44. Grasp starter rope handle	___ 1
45. Pull starter rope slowly upward	___ 1
a. Until fully extended	___ 1
46. Inspect starter rope	
State, checking for:	
a. Loose knot	___ 1
b. Frays or cuts in rope	___ 1
c. Length (as per manufacture)	___ 1

# Score Sheet

	<b><u>POINTS</u></b>
47. Return starter rope to start position while maintaining control	<u>  2  </u>
48. Flip starter to "On" position and start saw and check if chain moves at idle	<u>  *  </u>
a. Confirm chain moves freely when throttle opened	
b. Confirm oiler is working (see oil spray on ground)	
49. Check chain brake operation	<u>  *  </u>
a. Push brake lever forward	
b. Opens throttle; chain does not move	
c. Releases brake, opens throttle and chain moves freely	
50. Shut off saw	

**TOTAL TIME:**       :

**POINTS POSSIBLE:**   100  

**POINTS DEDUCTED:** \_\_\_\_\_

**FINAL SCORE:** \_\_\_\_\_

**EVALUATOR'S SIGNATURE:**

**DATE:**

**COMMENTS:**

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