

## **How to Remove and Install a Chainsaw Chain**

Objective 1. Students will be able to identify chain saw chain.

Objective 2. Students will be able to explain the purpose of removal and replacement of chain.

Objective 3. Students will be able to demonstrate how to properly remove and install chain.

Objective 4. Students will be able to analyze and compare the old chain to the new chain.

Objective 5. Students will determine why the old chain needed to be replaced.

Objective 6. Students will be able to show that the newly installed chain is working properly.

Student needs: In order to be properly evaluated each student will be provided with the tools listed below.

### Tools Needed:

- Chainsaw with all-working parts and a malfunctioning chain
- Srench
- Mechanic rags
- New chain

### Step-by-step Instructions:

1. Prepare work area with mechanic rags.
2. Identify and remove bar nuts using the srench tool.
3. Identify and remove face-plate from the power head.
4. Loosen bar tensioner using the flat head screwdriver end of srench.
5. Remove bar and chain from power head.
6. Remove chain from bar.
7. Set used chain aside.
8. Wipe bar down with additional mechanic rags.
9. Install or apply new chain to bar, ensuring all chain drivers are in proper placement on bar.
10. Place chain-slack over sprocket.
11. Place bar back on power head, ensuring proper placement over mounting bolts.
12. Tighten chain tensioner, until only 5 drivers are visible when putting tension on chain.
13. Replace face-plate over power head.
14. Replace bar nuts using the srench tool.

15. Start chainsaw, run for approximately 15 seconds. Chain will become loose, untighten the bar nuts, but DO NOT remove, and re-tighten the chain tensioner. Making sure that only 5 drivers are visible when putting tension on chain.

Evaluation:

16. Make sure the chain saw starts and runs properly – chain should be running in the correct direction with minimal slack in chain.
17. After running the chain saw for a short period of time, and finds extra slack on the chain, student will be able to tighten the chain without removal of chain.
18. Once the student has mastered the removal and replacement of the chain saw chain, they will compare and analyze the old chain to the newly installed chain to determine malfunction.