

Student Tracker

Pre-Shop Competencies (PS)

Name: _____

Class: _____

Please complete the following competencies using the proper procedures, service information, and tools. Be prepared to explain to the teacher what you did. After completion of each competency, your teacher will initial next to each number.

1. Demonstrate how to safely put a vehicle on a two-post lift (work in pairs).
2. Demonstrate how to safely put a vehicle on jack stands.
3. Identify various automotive repair tooling (with the teacher in the shop).
4. Demonstrate how to read a tape measure. Pick 3 items in the shop to measure; write the item and measurement here; have the instructor confirm the measurements.
5. Demonstrate how to read a dial caliper. Pick 3 items in the shop to measure; write the item and measurement here; have the instructor confirm the measurements.
6. Demonstrate how to read a micrometer. Pick 3 items in the shop to measure; write the item and measurement here; have the instructor confirm the measurements.
7. Demonstrate how to read a drill/tap chart.

What size drill bit is needed for a 10-24 size bolt? _____

What size drill bit is needed for a M27 X 3 size bolt? _____

What size drill bit is needed for a 1/4-18 size national pipe thread bolt (NPT)? ____

8. Demonstrate how to chase threads (tap and die).

What size tap needs to be used? _____

9. Demonstrate how to drill/tap a hole in aluminum.

What size bolt are you tapping a hole for (diameter and thread pitch)? _____

According to the drill/tap chart, what size drill bit is used? _____

What size tap needs to be used? _____

10. Demonstrate how to remove a broken bolt.

11. Demonstrate how to repair a threaded hole with a heli-coil.

12. Demonstrate how to set and torque a bolt with an analog torque wrench.

13. Demonstrate how to set and torque a bolt with a digital torque wrench.