

Small Engine Repair Instructional Scenario

Quick Check

Duty Areas: Examining Functions of Fuel Systems; Understanding Engine Nomenclature and Selecting Repair Parts; Repairing Ignition Systems; Demonstrating the Use of Tools

Latisha is very interested in tinkering with small machines, so she enrolled in her school's Small Engine Repair program. Her school allows select customers to bring machines in that students can work on. But a month into service duty, Latisha is growing more and more frustrated—not one piece of equipment is working, and some of the students seem to be trying to repair the wrong engine system to solve the problem. There seems to be a breakdown in strategy.

Latisha decides there needs to be a better system to record information, make decisions, and plan labor tasks. Since students have access to laptops, she plans to create a quick check form that can be completed for every piece of equipment that comes into the lab for service or repair.

Big Question:

What useful information should be recorded? How?

Focused Questions:

- What engine and equipment nomenclature should be recorded?
- What information about fuel condition should be recorded?
- What information about spark should be recorded?
- What information about compression should be recorded?
- How will this information be collected, shared, and used?

Project-Based Assessment:

Have students create a document, spreadsheet, or form using a rubric that addresses the focused questions.

Resource:

[Briggs and Stratton Problem Solving Tips](#)

Briggs & Stratton, Troubleshooting Chart, *Small Engine Care & Repair*, 1998 edition