

# Small Engine Service and Repair

**Curriculum Guide:** *Small Engine Service and Repair*

**Module:** 7. Troubleshooting

**Unit Objective:**

Students will apply principles of small engine repair by systematically evaluating the condition of the ignition system, fuel supply, spark plug, and compression to locate and eliminate engine malfunctions.

**Show-Me Standards:** 3.1, CA3

**References:**

Briggs & Stratton Corporation. Accessed January 13, 2004, from <http://www.briggsandstratton.com>.

Kohler Engines. Accessed January 13, 2004, from <http://www.kohlerengines.com/>.

*Small Engine Service and Repair*. University of Missouri-Columbia, Instructional Materials Laboratory, 1994.

**Instructional Strategies/Activities:**

- Students will engage in study questions in lesson 1.
- Students will complete the Module 7 evaluation, Troubleshooting.
- Students will complete the following competency profile: Maintenance Procedures.
- Additional activities that relate to the unit objective can be found under the heading "Other Activities" in the following location: p. 7.6 (1).

**Performance-Based Assessment:**

As part of the instructional strategies and activities for this module, students will locate and eliminate engine malfunctions by testing the ignition system and checking the fuel supply, spark plug, and compression.

Assessment will be based on performance on the module evaluation and the ability to safely and correctly perform the assigned repair and service procedures.



### Module 7—Troubleshooting Instructor Guide

The instructor should assign the performance-based assessment activity procedures in conjunction with the relevant lesson material outlined in the instructor guide. Students will complete the activity procedures as they progress through the module lessons.

1. Use the Maintenance Procedures Competency Profile to assess student performance. This profile includes the procedures listed below. The page number indicates the location of a checklist for the procedure. The procedures and checklists are found in the student manual.
  - Check Fuel Supply, p. 14
  - Test Ignition System, p. 14
  - Check the Spark Plug, p. 14
  - Checking Compression, p. 14
2. Have students complete the Module 7 evaluation, Troubleshooting. Answers for the evaluation are found on pp. 7.6–7.7 of the instructor manual.
3. Because the student manual includes step-by-step instructions and an itemized checklist for each competency procedure, there is no student handout for this performance-based assessment activity. However, there is a scoring guide that can be used, if desired. The scoring guide lists the assessment activity procedures and includes spaces for points possible, points earned, and instructor comments.
4. The final assessment score will be based on the performance on the module evaluation and the ability to safely and correctly perform the assigned repair and service procedures.



## Small Engine Service and Repair

### Module 7—Troubleshooting Scoring Guide

Name \_\_\_\_\_

Activity	Criteria	Points Possible	Points Earned	Instructor Comments
Maintenance Procedures Competency Profile	<input type="checkbox"/> Check fuel supply			
	<input type="checkbox"/> Test ignition system			
	<input type="checkbox"/> Check the spark plug			
	<input type="checkbox"/> Checking compression			
Module 7 Evaluation	Complete Module 7 evaluation			

**Total Points Earned** \_\_\_\_\_

