

**School District of Loyal**  
**Small Engines/Automotive Technology**  
**Grade: 9-12**  
**Student Learning Targets**



**Class: Small Engines/Automotive Technology**

Students who demonstrate understanding can:

<b>WI State Standards</b>	<b>Standard:</b>	<b>Student Learning Targets:</b>
AC1.c:	Demonstrate the safe and appropriate use of hand tools common to the transportation industry.	<p><b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>• Demonstrate the safe and proper use of hand tools</li> <li>• Maintain and care for hand tools used in the transportation industry</li> <li>• Identify hand tools by its proper name</li> </ul>
AC1.d:	Demonstrate the safe and appropriate use of portable tools that are common to the transportation industry and are appropriate to the individual student's level	<p><b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>• Demonstrate the use of portable tools such as compression testers, spark testers, pullers as well as power impact tools etc.</li> <li>• Demonstrate the proficiency on using diagnostic tools such as code scanners and chargers safely</li> </ul>
AC1.e:	Demonstrate project management procedures and processes as they occur in a construction project	<p><b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>• Solve common diagnostic problems to repair small engine and automotive</li> </ul>
AC1.f:	Demonstrate the value and necessity of practicing occupational safety in the transportation industry	<p><b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>• Demonstrate OSHA 10 requirements</li> <li>• Apply OSHA 10 Safety standards</li> </ul>
AC1.a:	Analyze Automotive requirements, materials and maintenance procedures	<p><b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>• Analyze the importance of maintenance schedules and perform the procedures for various system</li> </ul>
AC1.b:	Apply measurement systems in the disassembly and assembly process required in the automotive industry	<p><b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>• Identify design flaws and solutions for various systems such as fuel, cooling and lubricating</li> <li>• Calculate required materials for proper repairs</li> </ul>

ENG5.a	Engine Parts Identification and Function	<b>Students will be able to:</b> <ul style="list-style-type: none"><li>● Identify engine components and various system components</li></ul>
ENG5.1	4 Stroke Cycle	<b>Students will be able to:</b> <ul style="list-style-type: none"><li>● Explain the 4 stroke cycle of an internal combustion engine</li></ul>
ENG5.a	Diagnostics	<b>Students will be able to:</b> <ul style="list-style-type: none"><li>● Diagnose systems that are malfunctioning and use tools, materials and machines to repair them</li></ul>
AC1.f	Demonstrate the safe use of electrical connections, methods and wiring procedures	<b>Students will be able to:</b> <ul style="list-style-type: none"><li>● Identify and describe the operation of common electronic components</li></ul>