

<b>Course Name:</b> SMALL ENGINE	<b>District Name:</b> _____
Adapted from: _____	Developed by: _____
Date: _____	

<b>EED USE ONLY</b>	Date: _____
Approval Status: _____	

<b>Prerequisite Course(s):</b> None <input type="checkbox"/> None	
<b>High School Credit =</b> <input type="checkbox"/> .5 Credits, 1 hour, semester class	<b>This course will be offered:</b> <input checked="" type="checkbox"/> every year? <b>OR</b> <input type="checkbox"/> every other year?
<b>Pathway):</b> Facility and Mobile Equipment Maintenance	<b>Career Cluster Area:</b> Transportation, Distribution, and Logistics
<b>Eligibility for Nationally Recognized Skill Certificate(s)/State License?</b> <input checked="" type="checkbox"/> No <b>OR</b> <input type="checkbox"/> Yes	
If Yes, identify Certificate(s):	
<b>Tech Prep:</b> <input checked="" type="checkbox"/> No <b>OR</b> <input type="checkbox"/> Yes	
If Yes, (1) List Postsecondary Institution	
(2) Name of Course _____ And the number of postsecondary credits <input type="checkbox"/>	
<b>Is this course brokered through another institution or agency?</b> <input checked="" type="checkbox"/> No <b>OR</b> <input type="checkbox"/> Yes	
If Yes list institution/agency: _____	

**Course Description:** Small Engines: Introductory automotive engines class using small engines. The class teaches theory, operation, maintenance, and overhaul of engines. Class will take apart, recondition, and assemble valve-in block engine, overhead valve engine, and 2 stroke engine.

**Content Headings:**

engine theory, lubrication and fuels, carburetion, cooling systems, emissions systems, teardown, inspection, assembly, maintenance, troubleshooting.

**Source of Occupational Skills Standards**

Source/Organization/Agency	Acronym	Website or location of Information	Section, Chapters referenced in Performance Standards etc
National Automotive Technician Education Foundation	NATEF	<a href="http://www.natef.org">http://www.natef.org</a>	General Service Technician (GST) 2003 Task List and Assumptions (TLA) Vehicle Service (VS) Electricity/Electronics (EE) Engine Repair (ER) Engine Performance (EP) NATEF Engine Repair (NER)
National Institute for Automotive Service Excellence	ASE	<a href="http://www.asecert.org">http://www.asecert.org</a>	

Student Performance Standards (Learner Outcomes)	Specific Occupational Skills Standards	Alaska Reading, Writing, Math, Science Performance Standards	Alaska Content Standards	Alaska Employability Standards	Alaska Cultural Standards	All Aspects of Industry	Assessments
1. Student will practice safe work habit to protect themselves and others from hazards.	GST Skills: TLA p1-2	R4.1,4.4 W4.3	SHLA2 B1, EA6	A6.A7	B4	Health and Safety	Written test Observation

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<b>Student Performance Standards (Learner Outcomes)</b>	<b>Specific Occupational Skills Standards</b>	<b>Alaska Reading, Writing, Math, Science Performance Standards</b>	<b>Alaska Content Standards</b>	<b>Alaska Employability Standards</b>	<b>Alaska Cultural Standards</b>	<b>All Aspects of Industry</b>	<b>Assessments</b>
2. Student will identify, locate, properly use, and store tools and shop equipment.	GST Skills: TLA p1	R4.1, 4.4 W4.3	Tech A4	A1,A2	B3	Health and Safety	Written test, observation
3. Student will make accurate and precise measurements with mechanical and electrical measuring tools.	GST Skills: TLA p1	R4.1,4.4 W4.3,A24.3 A2.4.1,A2.4.2	Tech A4	A1,A2	B3	Tech Prod.	Written test, observation
4. Student will locate and use technical information sources.	GST Skills: TLA p1	R4.1,4.4 W4.3	Tech A1,B2	A1,A2	B3	Tech Prod.	Written test, Observation
5. Student will demonstrate knowledge of fasteners	GST Skills:	R4.1, 4.4 W4.3	Tech A5	A1,A2	B3	Tech Prod.	Written test, Observation
6. Student will demonstrate knowledge of career opportunities engine repair.	GST Skills: TLA p1	R4.4	Tech B1,B2,C1	A1,3,5,7 B1-5	B3, D6 E4	All	Presentation
7. Student will demonstrate competency performing industry accepted standard practices for engine repair and maintenance.	GST Skills: VS 1,9-11 ER 1,3,5 EE 1-3 EP 1,4,5 NER All P-1 items	R4.1, 4.4 W4.3	Tech A1,A5 Sci:A1,A6 A8	A1,A2	B3	Tech Prod.	Written test, Observation

**Major Instructional Resources: (websites, textbooks, essential equipment, reference materials, supplies)**

**WEBSITES**

- |   |   |
|---|---|
| Career Clusters Resources                   | <a href="http://www.careerclusters.org/">http://www.careerclusters.org/</a>   |
| All Aspects of Industry                     | <a href="http://www.nww.org/qwbl/tools/kcktoolkit/Tools/Tool_2.PDF">http://www.nww.org/qwbl/tools/kcktoolkit/Tools/Tool_2.PDF</a>               |
| Alaska Employability Standards              | <a href="http://www.eed.state.ak.us/qschools/Employability_Standards.html">http://www.eed.state.ak.us/qschools/Employability_Standards.html</a> |
| SCANS Skills                                | <a href="http://www.mfglinks.org/scans.htm">http://www.mfglinks.org/scans.htm</a>   |
| Alaska Cultural Standards                   | <a href="http://www.ankn.uaf.edu/stustan.html">http://www.ankn.uaf.edu/stustan.html</a>   |
| Alaska Reading, Writing, and Math Standards | <a href="http://www.eed.state.ak.us/tls/PerformanceStandards/">http://www.eed.state.ak.us/tls/PerformanceStandards/</a>                         |
| Alaska Content Standards                    | <a href="http://www.eed.state.ak.us/contentstandards/home.html">http://www.eed.state.ak.us/contentstandards/home.html</a>                       |
| Equipment and Engine Training Council       | <a href="http://www.eetc.org">http://www.eetc.org</a>   |
| Briggs and Stratton                         | <a href="http://www.briggsandstratton.com">http://www.briggsandstratton.com</a>   |
| Skills USA-VIC A                            | <a href="http://www.skillsusa.org/">http://www.skillsusa.org/</a>   |

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**TEXTS**

Small Engines, Alfred C. Roth, Goodheart-Willcox, 2001.

Small Engines Workbook, Alfred C. Roth, Goodheart-Willcox, 2001