

CTE Course Description and Standards Crosswalk

Course Information

Course Name	Small Engine Repair 2
Course Number	86620
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Automotive Technology Marine Mechanics Outdoor Power Equipment
Date of district Course Revision	February 2015

Career & Technical Student Organization (CTSO)

CTSO embedded in this sequence	SkillsUSA
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Occupational Standards

Source of Occupational Standards	Equipment & Engine Training Council (EETC)
Names/Numbers of Occupational Standards	2-Stroke; 4-Stroke; Electrical

Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	Small Engines 2 is an advanced lab setting emphasizing tools and equipment, fuel systems and electrical systems. Topics covered are ignition, starting, and charging systems. The diagnosis of electrical components on small engines is stressed. Students interested in being a small engine mechanic or manager either in a small business or dealership would benefit from this class.
Instructional Topic Headings (please separate each heading by a semi-colon)	Lab Safety and Shop Procedures; Tools and Equipment; Fuel Systems; Exhaust and Emission Systems; Troubleshooting and Maintenance; Electrical Systems; Encourage Career and Technical Student Organization (CTSO) Involvement

Summative Assessments and Standards

Technical Skills Assessment (TSA)	Yes
Course addresses:	EETC: 2-Stroke; 4-Stroke; Electrical
New Alaska ELA and Math Standards	Yes
Alaska Cultural Standards	Yes
All Aspects of Industry (AAI)	Yes
Core Technical Standards	Yes
Employability Standards	Yes

Employability Standards

Source of Employability Standards	State of Alaska
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Tech Prep

Current Tech Prep Articulation Agreement? (Y/N)	No
Date of Current Agreement	
Postsecondary Institution Name	
Postsecondary Course Name	
Postsecondary Course Number	
# of Postsecondary Credits	

Additional CTE Course Information

Author	
Course developed by	Neal Lacy, John Egan, Revised by Tom Lord
Course adapted from	Small Engine Repair 2
Date of previous course revision	June 2005
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	No

Standards Alignment

Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
Uses laboratory equipment safely.	100-105 401-406	CRP 3	SL 9-12 1a-d		B2,4	A1,2,5,6	Technical Skills Health/Safety	AK EED Safety Manual
Performs service and business procedures.	201,301,401, 502	CRP 2, 3, 4, 5, 7, 8, 9, 11	RST 9-12.3	SIC 6; SMD 6,7	B2,4	A2,5	Planning Management Technical Skills Finance	EETC 2 & 4 Stroke
Uses fasteners, gaskets, sealants and adhesives properly.	201A1-A2	CRP 2, 7, 11	L 9-12.6	NQ 1,2,3; SMD-6,7	B2,4	A2,5	Technical Skills	EETC 2 & 4 Stroke
Maintain a clean shop.	102	CRP 3	RST 9-12.3		B2,4	A1,2,5,6	Technical Skills	EETC 2 & 4

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							Managem ent	Stroke
Understand and explain how electricity works.	104F 104K- 104MZ	CRP 2, 7, 11	WHST 9- 12.9; RST 9- 12.1&4; SL 9- 12.4	NQ 1,2,3	B2,4	A2,5	Technolog y Health/Saf ety	EETC Electrical
Understand and explain how a fuel system works.	104H-H5	CRP 2, 7, 11	WHST 9- 12.9; RST 9- 12.1&4; SL 9- 12.4	SMD 6,7	B2,4	A2,5	Technolog y Health/Saf ety	EETC 2 & 4 Stroke
Understand and explain how exhaust interacts with their world environment.	104J-J1	CRP 2, 7, 11	WHST 9- 12.9; RST 9- 12.1; SL 9-12 1a-d	NQ 1,2,3; SMD-6,7	A4, B2,4	A2,5	Technolog y Health/Saf ety	EETC 2 & 4 Stroke
Diagnose minor engine problems quickly.	301	CRP 2, 7, 11	RST 9- 12.3; L 9- 12.6	SMD-6,7	B2,4	A2,5	Managem ent Technical Skills	EETC 2 & 4 Stroke
Participate in CTSO clubs.		CRP 1, 6, 12	SL 9- 12.4; SL 9-12 1a-d		B2,3,4	A 1,2,3,5 B 1, 2,3,4,5	Work Habits Planning	SkillsUSA
Apply mathematics and measurement fundamentals.	600-4	CRP 2, 7,		G-GMG 1; GMG 1.2;		A2,5	Technical	EETC 2 & 4

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		11		SMD 6,7; NQ 1-3			Skills	Stroke

Instructional Resources

List the major instructional resources used for this course: (websites, textbooks, essential equipment, reference materials, supplies)

Recommended Text: Small Gas Engines Author: Alfred Roth 10th Edition

Resources:

Assessments available for SkillsUSA

<http://www.skillsusa.org/contests.html>

AK EED Safety Manual:

<http://www.eed.state.ak.us/tls/CTE/docs/resources/safetymanual.pdf>

Homelite Education Material