

## CTE Course Description and Standards Crosswalk

### Course Information

Course Name	OPET 2 Semester 2
Course Number	86662
Number of High School Credits	1
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Outdoor Power Equipment
Date of district Course Revision	March 2014

### Career & Technical Student Organization (CTSO)

CTSO embedded in this sequence	Skills USA
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### Occupational Standards

Source of Occupational Standards	Engine Equipment Training Council
Names/Numbers of Occupational Standards	EETC 2&4 Stroke, Electrical

### Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	OPET 2 is a year-long certificate training program in outdoor powered equipment. The program covers employability skills, inventory, dealership management, and advanced troubleshooting. Students will be involved with CTSOs This is a course for students who are interested in marine mechanics, ATVs, snow machines, water craft repair, and tool and rental repair. Students interested in being an outdoor power equipment mechanic or manager either in a small business or dealership would benefit from this class. National EETC (Engine Equipment Training Council) certification tests may be taken.
Instructional Topic Headings (please separate each heading by a semi-colon)	Employability Skills; Safety; Troubleshooting Skills, Engine Theory & Design, Electronic Systems, Fuel Systems, Engine Overhaul, CTSO involvement

### Summative Assessments and Standards

Technical Skills Assessment (TSA)	Yes
Course addresses:	EETC 2 & 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)	N
Date of Current Agreement	
Postsecondary Institution Name	
Postsecondary Course Name	

**DISTRICT NAME: Mat-Su Borough School District**

Postsecondary Course Number	
# of Postsecondary Credits	

### Additional CTE Course Information

Author	
Course developed by	David Ralph, Revised by Tom Lord
Course adapted from	OPET 2
Date of previous course revision	June 2011
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	N

Standards Alignment
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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
Incorporate the responsibility of employment, including dependability and meeting organizationally defined expectations.	EETC 101.1 to.57	TD 1, 2, 3 TD-SAL1, 2	SL.9-12.1.a-d	SMD.6-7 S-IC.6	B2, B3, B4	A1, A2, A3, A5, A7, B2, B3, B4, B5	Planning Management Community Technology Technical Skills Work Habits	SkillsUSA
Perform safe lab techniques and handling of hazardous chemical and materials.	101.1 to 104.68, 201.1 to 202.32	TD-SAL1, 2 TD-OPS3	SL.9-12.1.a-d	SMD.6-7	B2, B4	A1, A2, A3, A5, A6 A7	Planning Health/Safety Community Technical Skills	AK EED Safety instruction manual

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<b>Student Performance Standards (Learner Outcomes or Knowledge &amp; Skill Statements)</b>	<b>Specific Occupational Skills Standard</b>	<b>Common Technical Core Standards</b>	<b>New Alaska ENG/LA Standards</b>	<b>New Alaska Math Standards</b>	<b>Alaska Cultural Standards</b>	<b>Employability/ Career Readiness Standards</b>	<b>All Aspects of Industry/ Systems</b>	<b>Assessment</b>
Select and safely operate appropriate hand tools, power tools, and related equipment.	2&4 cycle 301.1 to 700.21	TD-SAL1, 2 TD-OPS3	SL.9- 12.1.a-d	NQ.1	B2, B4	A2, A5, A6	Planning Health/Saf ety Communit y Technical Skills Technolog y	AK EED Safety instruction manual EETC 2&4 Cycle
Evaluate career opportunities in the OPET Field.	SkillsUSA PET 8	TD 5, 6	SL.9- 12.1.a-d WHST.9- 12.8	S-IC.6	B2, B3, B4	A 1-7 B 1-5	Planning Communit y Technical Skills Work Habits	Skills USA
Develop engine repair and overhaul maintenance schedule.	500.25 to 600.21	TD-SAL1, 2	RST.9- 12.1	NQ.1,2,3 SMD.6-7	B2, B4	A2, A5	Technical Skills Technolog y	EETC 2&4 Cycle
Perform competent use of technology-based equipment.	102.1 to 104.7	TD-SAL1, 2	RST.9- 12.3 & 4 L.9-12.6	SMD.6-7	B2, B4	A2, A5	Technical Skills Technolog y	EETC 2&4 Cycle
Perform troubleshooting skills.	104.18, 104.23, 302.12, 500.25, 700.1 to 700.21	TD-SAL1, 2	SL.9- 12.4 RST.9- 12.3 & 4	SMD.6-7	B2, B4	A2, A5	Technical Skills Technolog y	EETC 2&4 Cycle
Assess differences between various internal engine designs and operating principles.	102.1 to 102.4,	TD-SAL1, 2	SL.9- 12.4		B2, B4	A2, A5	Technical Skills	EETC 2&4 Cycle

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	103.1, 104.1to 104.21		RST.9- 12.1 & 4 L.9-12.6				Technolog y	
Participate in career and technical student organizations.	SkillsUSA PET 8	TD 5, 6 TD-SAL1, 2	SL.9- 12.1.a-d SL.9- 12.4	SMD.6-7 S-IC.6	B2, B3, B4	A 1-7 B 1-5	Planning Communit y Technolog y Work Habits Technical Skills	Skills USA
Construct and repair fuel systems.	14.25 to 104.41	TD-SAL1, 2	L.9-12.6 WHST.9- 12.9 RST.9- 12.1&4	SMD.6-7	B2, B4	A2, A5	Technical Skills Technolog y	EETC 2&4 Cycle
Demonstrate understanding of exhaust systems, emission and their effect on the environment.	104.42 to 104.45	TD-SAL1, 2	L.9-12.6 RST.9- 12.1&4	SMD.6-7	B2, B4	A2, A5	Technical Skills Technolog y	EETC 2&4 Cycle
Troubleshoot electrical/electronic systems.	2&4 cycle 104.47 to 104.64, Electrical 101.1 to 101.57	TD-SAL1, 2	L.9-12.6 RST.9- 12.1&4	SMD.6-7	B2, B4	A2, A5	Technical Skills Technolog y	EETC 2&4 Cycle

**Instructional Resources**

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

Small Gas Engines, Alfred C Roth, The Goodheart-Willcox Company, Inc., 2013

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Form #05-13-028

Alaska Department of Education and Early Development

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Resources:

State of Alaska EED Safety Manual

Occupational Standards: National Skills Standards Board

Assessments available for SkillsUSA

Assessments available for safety:

OSHA

US Coast Guard

MATE: Marine Advanced Technician Education Center

<http://www.nssb.org>

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

<Http://www.eed.state.ak.us/tls/cte/docs/resources/safetymanual.pdf>

<http://osha.gov>

<http://www.uscg.mil/>

<http://www.marinetech.org>