

CTE Course Description and Standards Crosswalk

Course Information

Course Name	OPET A Semester 1
Course Number	86811
Number of High School Credits	.5
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	February 2015

Career & Technical Student Organization (CTSO)

CTSO embedded in this sequence	SkillsUSA
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Occupational Standards

Source of Occupational Standards	Engine Equipment Training Council (EETC); Skills USA
Names/Numbers of Occupational Standards	EETC 2&4 Stroke, Electrical; Skills USA Power Equipment Technology (PET)

Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	OPET A in an expansion to OPET 1, a year-long certificate training program in outdoor powered equipment. The program covers marine engines, motorcycles, ATV's, lawn and garden, and power generation equipment. The program covers shop safety and OSHA Laws. Students interested in being an outdoor power equipment 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)	Employability Skills, Safety, Career Exploration, Tools & Equipment, Troubleshooting Skills, Engine Theory & Design, Career and Technical Student Organizations (CTSO).

Summative Assessments and Standards

Technical Skills Assessment (TSA)	Yes
Course addresses:	EETC 2 & 4 Stroke, Electrical; SkillsUSA Power Equipment Technology
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	
Postsecondary Course Number	
# of Postsecondary Credits	

Additional CTE Course Information

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

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
Understand and appreciate the importance of OSHA standards.	Skills USA PET 5.1& 5.3	TD 1,4,5 TD-HSE 1,2	WHST 9-12.9; RST 9-12.4; SL 9-12.4 L.9-12.6	NQ 1,2,3	B 2,3	A 2,5,6	Planning Health/ Safety Community Technical Skills	Skills USA PET 5.3, 8.1
Discuss service and business procedures.	Skills USA PET 6.1- 6.5	TD 1 TD-SAL 1	RST 9-12.3&4; SL 9-12 1a-d L.9-12.6	S-IC.6	B 2,3	A 2,5	Technical Skills Planning Labor	Skills USA 5, 6, 8.6, 8.7
Describe minor to major tune-ups to engines.	EETC 104.24	TD 2,3 TD-MTN 1	RST 9-12.3&4; SL 9-12 1a-d L.9-12.6		B 2,3	A 2,5	Technical Skills	Skills USA PET 8

DISTRICT NAME: Mat-Su Borough School District

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
Understand how power transmissions work.	Skills USA PET 7.1- 73	TD 2,3 TD-MTN 1,2	WHST 9- 12.9; RST 9- 12-1&4; SL 9- 12.4 L.9-12.6	NQ 1,2,3	B 2,3	A 2,5	Technical Skills	Skills USA PET 7
Describe maintenance on power transmission systems.	Skills USA PET 7.1- 7.3	TD 2,3 TD-MTN 1,2	RST 9- 12.3&4; SL 9-12 1a-d L.9-12.6		B 2,3	A 2,5	Technical Skills	Skills USA PET 7
Understand how all types of brake systems work.	EETC 300.21	TD 2,3 TD-MTN 1,2	WHST 9- 12.9; RST 9- 12-1&4; SL 9- 12.1, a-d, 4 L.9-12.6	NQ 1,2,3 S-ID.9	B 2,3	A 2,5	Technical Skills	Skills USA PET 7.2
Participate in CTSO clubs.	Skills USA PET 8.1- 8.7	TD 1,5,6	SL 9- 12.4; SL 9-12 1a-d L.9-12.6		B 2,3	A 1-7 B1-5	Technical Skills Work Habits Planning Communit y	Skills USA PET 1-8
Demonstrate Employability skills.	Skills USA PET 8.1- 8.7	TD 1,5,6	RST 9- 12-1&4; SL 9- 12.1 A-D L.9-12.6		B 2,3	A 1-7 B1-5	Technical Skills Work Habits Planning	Skills USA PET 8, 5.5, 6.5

DISTRICT NAME: Mat-Su Borough School District

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
Apply mathematics and measurement fundamentals.	EETC 403.2	TD1	L.9-12.6 RST.9- 12.4	G GMC 1; GMG 1.2; SMD 6,7; NQ 1-3	B 2,3	A 2,5	Technical Skills	Skills USA PET 3.3, 4, 6.3

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

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>