

CTE Course Description and Standards Crosswalk

Course Information

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| Course Name | OPET A Semester 2 |
| Course Number | 86812 |
| 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)

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| CTSO embedded in this sequence | SkillsUSA |
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Occupational Standards

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| 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

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| 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

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|-----------------------------------|---|
| 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

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|-----------------------------------|-----------------|
| Source of Employability Standards | State of Alaska |
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Tech Prep

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| Current Tech Prep Articulation Agreement? (Y/N) | N |
| Date of Current Agreement | |
| Postsecondary Institution Name | |
| Postsecondary Course Name | |
| Postsecondary Course Number | |

DISTRICT NAME: Mat-Su Borough School District

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|----------------------------|--|
| # of Postsecondary Credits | |
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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 |
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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 |
|---|---------------------------------------|---------------------------------|--|---------------------------|---------------------------|---|---|---------------------------------|
| Examine and appreciate the importance of OSHA standards. | SkillsUSA PET5.1 & 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 |
| Compare service and business procedures. | SkillsUSA 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 |
| Distinguish the difference between 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 |

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|---|--|--|---|--|--|--|--|----------------------------------|
| Demonstrate how power transmissions work. | SkillsUSA PET7.1- 7.3 | 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 |
| Demonstrate maintenance on power transmission systems. | SkillsUSA PET7.1- 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 |
| Differentiate 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. | SkillsUSA 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. | SkillsUSA 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 |

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|---|--|--|------------------------------------|--|----------------------------------|--|---|-------------------------------|
| Apply mathematics and measurement fundamentals. | SkillsUSA Related Technical Math 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

<http://www.nssb.org>

Assessments available for SkillsUSA

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

Assessments available for safety:

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

OSHA

<http://osha.gov>

US Coast Guard

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

MATE: Marine Advanced Technician Education Center

<http://www.marinetech.org>