

CTE Course Description and Standards Crosswalk

- The information on page 1 must be entered directly into the EED CTE Web Portal (log in at <https://www.eed.state.ak.us/tls/cte/perkins> with your district credentials)
- Then this entire form can be submitted by using the “Click here Provide Supporting Documentation” link on the Web Portal, or by emailing it to ctegrants@alaska.gov.

Basic CTE Course Information

Course Information	
Course Name	Power Mechanics I
Course Number	11785
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS name put into the system.)	A&C, Manufacturing and Transportation Construction Management
Occupational Standards	
Source of Occupational Standards	Equipment & Engine Training Council
Names/Numbers of Occupational Standards	EETC 2-Stroke
Registration Information	
Course Description (brief paragraph – as shown in your student handbook or course list)	This course is designed to provide students with fundamental skills necessary to understand basic engine function and modern shop practices and procedures.
Instructional Topic Headings (please separate each heading by a semi-colon)	Safety and hazardous material; Tools and equipment; Fasteners and sealants; Principle of operation; Technical reading and writing; Career opportunities
Summative Assessments and Standards	
Technical Skills Assessment	Y
Course addresses Alaska GLEs	Y
Course addresses Employability Standards	Y
Course addresses Cultural Standards	Y
Course addresses All Aspects of Industry (AAI)	Y
Career & Technical Student Organization (CTSO)	

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CTSO associated with this course	SkillsUSA
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	KPBSD
Course adapted from	Previous Version
Date of last course revision	Nov. 2010
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	No
Certificate, Credential, or License	
Industry-recognized skill certificate, credential, or state license that a student is eligible for upon successful completion of the course?	EETC 2 Stroke
Issuing body/organization/agency	Equipment & Engine Training Council

Standards Alignment

Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standards	Alaska Reading, Writing, Math, & Science Standards	Alaska Employability Standards	Alaska Cultural Standards	All Aspects of Industry	Formative Assessment
1. Describe hazards found in power mechanics shop.	OSHA Art.7-9		A6	B3 E8	Health / Safety	Pre / Post Test
2. Describe the correct use of fire extinguishers.	OSHA Art.13		A6	B3 E8	Health / Safety	Pre / Post Test
3. Describe proper handling and disposal of hazardous waste.	OSHA Art.15		A6	B3 E8	Health / Safety	Pre / Post Test
4. Demonstrate the functions of fasteners, gaskets, and sealants.	ASE 6				Technical	Lab Assignment
5. Demonstrate proper use and care of power mechanic tools and equipment.	OSHA Art.8	MA2			Technical	Lab Assignment
6. Explain operating principles of various engines and systems.	ASE 6			B4	Technical	Lab Assignment

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Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standards	Alaska Reading, Writing, Math, & Science Standards	Alaska Employability Standards	Alaska Cultural Standards	All Aspects of Industry	Formative Assessment
7. Demonstrate an ability to utilize fundamental troubleshooting skills.	ASE 3		A2	B4	Technical	Lab Assignment
8. Explain common power plant applications and auxiliary systems.	ASE 1-8			B4	Technical	Lab Assignment
9. Demonstrate effective technical reading and writing skills.		R4 W2, 3	A2		Technical	Lab Assignment
10. Identify career opportunities in the power mechanics field.			A3 A4 B2	D5	Technical	Lab Assignment

Instructional Resources

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

Small Engines (by Briggs and Stratton), 3rd Edition, by Bruce Radcliff, American Technical Publishers, Inc.

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> Kawasaki Education Material

Polaris Education Material

Yamaha Education Material