

DISTRICT NAME:

CTE Course Description and Standards Crosswalk

Course Information	
Course Name	Process Technology II
Course Number	II850
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Process Technology
Date of district Course Revision	Sept. 2013
Career & Technical Student Organization (CTSO)	
CTSO embedded in this sequence	SkillsUSA
Occupational Standards	
Source of Occupational Standards	Center for the Advancement of Process Technology
Names/Numbers of Occupational Standards	Process Technology
Registration Information	
Course Description (brief paragraph – as shown in your student handbook or course list)	This course is an introduction to process operations in the Process Technology industry through an overview of general information, processes, procedures, and equipment. Processing techniques used in oil & gas, chemical, mining, power generation, pulp & paper, waste water, food & beverage, and the pharmaceutical industries will be investigated. In addition, workplace information such as safety, quality, team building is introduced. Finally, basic processing equipment such as piping, valves, pumps, compressors, turbines, motors, etc. will also be introduced.
Instructional Topic Headings (please separate each heading by a semi-colon)	Types of processing used in various industries and associated careers, the basics of physics and chemistry are used in processing industry, Workplace skills used in processing industry, Basic equipment used in processing industry. Safety, health, environmental, and security measures used in processing industry
Summative Assessments and Standards	
Technical Skills Assessment (TSA)	No
Course addresses:	
New Alaska ELA and Math Standards	Yes
Alaska Cultural Standards	Yes

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All Aspects of Industry (AAI)	Yes
Core Technical Standards	Yes
Employability Standards	Yes
Employability Standards	
Source of Employability Standards	State of Alaska
Tech Prep	
Current Tech Prep Articulation Agreement? (Y/N)	Not yet, will be by Dec. 2013
Date of Current Agreement	Not yet
Postsecondary Institution Name	Kenai Peninsula College
Postsecondary Course Name	Intro. To Process Technology
	PRT A101
# of Postsecondary Credits	3

Additional CTE Course Information

Author	
Course developed by	DePriest, APICC
Course adapted from	KPBSD
Date of previous course revision	2005
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	No

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
Identify types of processing used in various industries and associated careers		AG-6 AG-FD-3 AG-PST-2,4,5	R B1	G-G.MD.3; G-GMG.3; F-IF.4; F-IF.7; R-REI.12, S.ID.7		A,B	Technical	Instructor Tests, Demonstrations
Identify how basic physics and chemistry are used in processing industry.		AG-ENV-3,4 AG-PST-1	MD1, S A1, S B1 – 4, SD 1, SE 1 - 3	N-Q.1,2,3 A-CED.4 A-REI.10 F-IF.6 G-GMD.1,2,3,4 G-MG.1,2,3		A	Technical	Instructor Tests, Demonstrations
Identify and demonstrate how basic workplace skills are used in processing industry.	APICC Tech Proc	AG-BIZ-2	R B1	F.BF.1; F.FI.9; S-ID.2; S.ID.4; A.CED.4;	C-3	A, B	Technical Skills	Instructor Tests, Demonstrations
Identify basic equipment used in processing industry.	APICC Tech Proc	AG-6 AG-ENV,1,4,5 AG-PST-2,3,4	MD1 SA1, SB1-4, SD1, SE 1 - 3,				Technical Skills	Instructor Tests
Demonstrate appropriate safety, health, environmental, and security measures used in processing industry.	APICC Tech Proc	AG-3,4 AG-BIZ-2 AG-ENV-1,2,3,4, AG-FD-1 AG-NR-4	R B2		A-4 B-3,4 E-2	A, B	Technical Skills Health & Safety	Instructor Tests,
Participate in discussions with guest speakers from a variety of career fields within the processing industry.	APICC Tech Proc	AG-5 AG-FD-4	R B2		E-8	A,B	Community Work Habits	Demonstrations

Instructional Resources

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

Introduction to Process Technology
CAPT(Center for the Advancement of Process Tech)
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Alaska Process Industry Careers Consortium (APICC) - <http://www.apicc.org>