

DISTRICT NAME:

## CTE Course Description and Standards Crosswalk

Course Information	
Course Name	Process Technology I
Course Number	11845
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	APICC
Names/Numbers of Occupational Standards	Center for Advancement of 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

**DISTRICT NAME:**

All Aspects of Industry (AAI)	Yes
Core Technical Standards	Yes
Employability Standards	Yes
<b>Employability Standards</b>	
Source of Employability Standards	State of Alaska
<b>Tech Prep</b>	
Current Tech Prep Articulation Agreement? (Y/N)	No
Date of Current Agreement	
Postsecondary Institution Name	
Postsecondary Course Name	
# of Postsecondary Credits	

**Additional CTE Course Information**

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

**Standards Alignment**

DISTRICT NAME:

<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>Assessm</b>
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, Demonstr.
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, Demonstr.
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, Demonstr.
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	Demonstr.

### Instructional Resources

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

**DISTRICT NAME:**

Introduction to Process Technology  
CAPT(Center for the Advancement of Process Tech)|  
ISBN-10: 0137004141  
ISBN-13: 9780137004140  
Publisher: Prentice Hall  
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Alaska Process Industry Careers Consortium (APICC) - <http://www.apicc.org>