

## CTE Course Description and Standards Crosswalk

### Course Information

Course Name	Automotive Braking Systems Tech
Course Number	86550
Number of High School Credits	1
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Automotive
Date of district Course Revision	April 2013

### Career & Technical Student Organization (CTSO)

CTSO embedded in this sequence	SkillsUSA
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### Occupational Standards

Source of Occupational Standards	ASE/NATEF
Names/Numbers of Occupational Standards	

### Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	Automotive Braking Systems Tech covers in depth training in the braking systems of the automobile. This course is designed to teach the student skills necessary for future employment in the automotive field. A student successful in this course will be able to use skills learned in this course to help qualify for nationally recognized ASE (Automotive Service Excellence) certification in braking systems.
Instructional Topic Headings (please separate each heading by a semi-colon)	

### Summative Assessments and Standards

Technical Skills Assessment (TSA)	
Course addresses:	
New Alaska ELA and Math Standards	
Alaska Cultural Standards	
All Aspects of Industry (AAI)	
Core Technical Standards	
Employability Standards	

### Employability Standards

Source of Employability Standards	SkillsUSA/NATEF
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### Tech Prep

Current Tech Prep Articulation Agreement? (Y/N)	Y
Date of Current Agreement	May 2013
Postsecondary Institution Name	University of Alaska (UAA)
Postsecondary Course Name	
Postsecondary Course Number	
# of Postsecondary Credits	

### Additional CTE Course Information

Author	
Course developed by	John Egan, Ed Clawson
Course adapted from	
Date of previous course revision	June 2007
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/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
Demonstrate safe laboratory techniques and handling of hazardous materials.	V701 C5.12				B	A	Hlth/Safety	AK EED Safety Manual, SP2.org
Select and operate appropriate hand tool, power tools, and related equipment.	ONET .26				B	A	Tech/Prod	AK EED Safety Manual, SP2.org
Exhibit responsibilities of employment standards including exhibiting dependability and meeting organizationally defined expectations.	EIA I.A.01 I.A.04				B	A B	ALL	SkillsUSA
Identify and Investigate career opportunities and duties of an automotive technician.	ASE NATEF				B C	A B	ALL	AKSIS Skills-USA (VICA)
Diagnose hydraulic brake systems and determine necessary action.	ASE NATEF					A	Tech/Prod	ASE A-5 Brakes

**DISTRICT NAME: Mat-Su Borough School District**

<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>Assessment</b>
Inspect and repair or replace master cylinders and hydraulic lines of the system.	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-5 Brakes
Inspect, test and replace switches, valves, and control devices	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-5 Brakes
Diagnose drum brake systems and determine necessary action.	ASE NATEF					A	Tech/Prod	ASE A-5 Brakes
Remove, clean, and inspect drum brake assemblies.	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-5 Brakes
Repair, replace, and adjust drum brake assemblies.	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-5 Brakes
Diagnose disc brake systems and determine necessary action.	ASE NATEF					A	Tech/Prod	ASE A-5 Brakes
Remove, clean, and inspect disc brake components.	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-5 Brakes
Repair, replace, and adjust disc brake components.	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-5 Brakes
Diagnose power assist brake systems and determine necessary action.	ASE NATEF					A	Tech/Prod	ASE A-5 Brakes
Remove, clean, and inspect power brake components.	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-5 Brakes
Repair, replace, and adjust power brake components.	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-5 Brakes
Remove, clean, and inspect hydro-boost components.	ASE NATEF					A	Hlth/Safety Prin Tech	ASE A-5

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							Tech/Prod	Brakes
Repair, replace, and adjust hydro-boost components.	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-5 Brakes
Check operation of anti-lock braking systems.	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-5 Brakes
Adjust or repair anti-lock brake components to manufacturer's specifications.	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-5 Brakes

**Instructional Resources**

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