

CTE Course Description and Standards Crosswalk

Course Information

Course Name	Automotive Electronics Tech
Course Number	86560
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 Electronics Tech covers in depth training in the electrical/electronic systems of automobiles. 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 electronics.
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 – Anchorage (UAA)
Postsecondary Course Name	Auto Electrical 1
Postsecondary Course Number	ADT A121
# of Postsecondary Credits	

Additional CTE Course Information

Author	
Course developed by	John Egan, Ed Clawson
Course adapted from	
Date of previous course revision	June 2013
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	

Standards Alignment

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				B1	A6	Hlth/Safety	AK EED Safety Manual, SP2.org
Select and operate appropriate hand tool, power tools, and related equipment	ONET.26				B4	A6	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				B3	A1	Wk Habits	Skilla USA

DISTRICT NAME: Mat Su Borough School District

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
Check continuity in electrical systems using a test light, voltmeter, oscilloscope and wiring schematic	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Check electrical systems for shorts, opens, and grounds	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Measure resistance in electrical circuits using an ohmmeter	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Measure voltage with a voltmeter or oscilloscope	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Measure current with an ammeter	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Clean and inspect battery clamps, cables and connectors and perform battery condition tests	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Charge and install a battery	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Diagnose starting systems and determine necessary action	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Jump start a vehicle	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Remove, clean, and inspect alternator and determine necessary action	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Repair or replace internal alternator or generator components	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics

DISTRICT NAME: Mat Su Borough School District

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
Repair or replace charging system components	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Diagnose and repair lighting systems	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Repair or replace lights, sockets, wires and switches.	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Diagnose and repair gauge and warning circuits	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Diagnose and repair Automotive safety and restraint systems	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics
Diagnose and repair electrical accessories and accessory circuits	ASE NATEF					A	Hlth/Safety Prin Tech Tech/Prod	ASE A-6 Electronics

Instructional Resources

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