STANDARD 1

Included in Standard 1B

Weekly/Monthly Lesson Schedule

School:	Central ATC	**Program:**	**Automotive Tech**	**School Year:**	**200_ - 0_**	**Week:**	**September 10, 200_**

Day	**Period 1** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 2** Course Title: Auto Electric KCTCS #: ADX 120/121	**Period 3** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 4** Course Title: Suspen. & Steer KCTCS #: AUT 160/161
Monday	Task #: 3, 4 Core Content: KOSSA #:AA01, OF01 Description: Brakes service information	Task #: 3, 4 Core Content: KOSSA #:AA01, OF01 Description: Electrical service information	Task #: 3, 4 Core Content: KOSSA #:AA01, OF01 Description: Brakes service information	Task #: 3, 4 Core Content: KOSSA #:AA01, OF01 Description: Electrical service information
Tuesday	Task #:3, 4 Core Content: KOSSA #: AA01, OF01 Description: Vehicle Service History	Task #:3, 4 Core Content: KOSSA #: AA01, OF01 Description: Vehicle Service History	Task #:3, 4 Core Content: KOSSA #: AA01, OF01 Description: Vehicle Service History	Task #:3, 4 Core Content: KOSSA #: AA01, OF01 Description: Vehicle Service History
Wednesday	Task #:3, 4 Core Content: KOSSA #: EA 001 Description: Technical Service Publications	Task #:3, 4 Core Content: KOSSA #: EA 001 Description: Technical Service Publications	Task #:3, 4 Core Content: KOSSA #: EA 001 Description: Technical Service Publications	Task #:3, 4 Core Content: KOSSA #: EA 001 Description: Technical Service Publications
Thursday	Task #:3, 4 Core Content: KOSSA #: AA002, OF01 Description: VIN and Component ID	Task #:3, 4 Core Content: KOSSA #: AA002, OF01 Description: VIN and Component ID	Task #:3, 4 Core Content: KOSSA #: AA002, OF01 Description: VIN and Component ID	Task #:3, 4 Core Content: KOSSA #: AA002, OF01 Description: VIN and Component ID
Friday	Task #:3, 4 Core Content: WR-HS-1.2.3 KOSSA #: AA002, AA004 Description: Complete open response writing and Quiz	Task #:3, 4 Core Content: WR-HS-1.2.3 KOSSA #: AA002, AA004 Description: Complete open response writing and Quiz	Task #:3, 4 Core Content: WR-HS-1.2.3 KOSSA #: AA002, AA004 Description: Complete open response writing and Quiz	Task #:3, 4 Core Content: WR-HS-1.2.3 KOSSA #: AA002, AA004 Description: Complete open response writing and Quiz

Weekly/Monthly Lesson Schedule

School:	Central ATC	**Program:**	**Automotive Tech**	**School Year:**	**200_ - 0_**	**Week:**	**September 17, 200_**

Day	**Period 1** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 2** Course Title: Auto Electric KCTCS #: ADX 120/121	**Period 3** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 4** Course Title: Suspen. & Steer KCTCS #: AUT 160/161
Monday	Task #: 1 Core Content: WR-HS-1.2.3 KOSSA #: AA001, AA007 Description: Work orders	Task #: 1 Core Content: WR-HS-1.2.3 KOSSA #: AA001, AA007 Description: Work orders	Task #: 1 Core Content: WR-HS-1.2.3 KOSSA #: AA001, AA007 Description: Work orders	Task #: 1 Core Content: WR-HS-1.2.3 KOSSA #: AA001, AA007 Description: Work orders
Tuesday	Task #:1 Core Content: KOSSA #: EA001, EA004 Description: Dealing with customer concerns	Task #:1 Core Content: KOSSA #: EA001, EA004 Description: Dealing with customer concerns	Task #:1 Core Content: KOSSA #: EA001, EA004 Description: Dealing with customer concerns	Task #:1 Core Content: KOSSA #: EA001, EA004 Description: Dealing with customer concerns
Wednesday	Task #:1 Core Content: WR-HS-1.2.3 KOSSA #: OD002 Description: Service history	Task #:1 Core Content: WR-HS-1.2.3 KOSSA #: OD002 Description: Service history	Task #:1 Core Content: WR-HS-1.2.3 KOSSA #: OD002 Description: Service history	Task #:1 Core Content: WR-HS-1.2.3 KOSSA #: OD002 Description: Service history
Thursday	Task #:1 Core Content: KOSSA #: EA006 Description: Use of service software	Task #:1 Core Content: KOSSA #: EA006 Description: Use of service software	Task #:1 Core Content: KOSSA #: EA006 Description: Use of service software	Task #:1 Core Content: KOSSA #: EA006 Description: Use of service software
Friday	Task #:1 Core Content: KOSSA #: EA 004, OA001, OD001 Description: Mock Customer scenarios	Task #:1 Core Content: KOSSA #: EA 004, OA001, OD001 Description: Mock Customer scenarios	Task #:1 Core Content: KOSSA #: EA 004, OA001, OD001 Description: Mock Customer scenarios	Task #:1 Core Content: KOSSA #: EA 004, OA001, OD001 Description: Mock Customer scenarios

Weekly/Monthly Lesson Schedule

School:	Central ATC	**Program:**	**Automotive Tech**	**School Year:**	**200_ - 0_**	**Week:**	**September 24, 200_**

Day	**Period 1** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 2** Course Title: Auto Electric KCTCS #: ADX 120/121	**Period 3** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 4** Course Title: Suspen. & Steer KCTCS #: AUT 160/161
Monday	Task #: 10 Core Content: RD-10-1.0.4 KOSSA #: OC015 Description: Brake line and fittings	Task #: 5 Core Content: RD-10-1.0.4 KOSSA #: AG001 Description: Electricity theory, electrons and electron movement	Task #: 10 Core Content: RD-10-1.0.4 KOSSA #: OC015 Description: Brake line and fittings	Task #: 14 Core Content: RD-10-1.0.4 KOSSA #: OE001 Description: Power steering fluid types
Tuesday	Task #:10 Core Content: KOSSA #: OC017 Description: Id Leaks and proper inspection	Task #:5 Core Content: SC-HS-1.2.2 KOSSA #: AG001 Description: Electromotive force, current flow, resistance	Task #:10 Core Content: KOSSA #: OC017 Description: Id Leaks and proper inspection	Task #: 14, 15 Core Content: RD-10-1.0.4 KOSSA #: OE001 Description: Practice power steering fluid servicing
Wednesday	Task #:12,10 Core Content: SC-HS-1.1.6 KOSSA #: OC008 Description: Proper brake line installation, Brake fluid	Task #:5 Core Content: SC-HS-1.2.3 KOSSA #: AG001 Description: Circuit components, power source, load, conductor	Task #:12,10 Core Content: SC-HS-1.1.6 KOSSA #: OC008 Description: Proper brake line installation, Brake fluid	Task #: 15 Core Content: KOSSA #: OE001 Description: Flush and bleed power steering fluid lines
Thursday	Task #:10, 11 Core Content: KOSSA #: AG001 Description: Brake line fabrication	Task #:5 Core Content: KOSSA #: AG001 Description: Types of circuits, series, parallel, series-parallel	Task #:10, 11 Core Content: KOSSA #: AG001 Description: Brake line fabrication	Task #: 16 Core Content: KOSSA #: OE001 Description: Diagnose power steering fluid leakage and action
Friday	Task #:10, 11 Core Content: SC-HS-1.1.6 KOSSA #: OC017 Description: Brake line fabrication and installation	Task #:5 Core Content: KOSSA #: AC001 Description: Computer software for student circuit training	Task #:10, 11 Core Content: SC-HS-1.1.6 KOSSA #: OC017 Description: Brake line fabrication and installation	Task #: 20 Core Content: KOSSA #: OE001 Description: Remove, inspect and replace power steering fluid hoses and fittings

Weekly/Monthly Lesson Schedule

School:	Central ATC	**Program:**	**Automotive Tech**	**School Year:**	**200_ - 0_**	**Week:**	**October 1, 200_**

Day	**Period 1** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 2** Course Title: Auto Electric KCTCS #: ADX 120/121	**Period 3** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 4** Course Title: Suspen. & Steer KCTCS #: AUT 160/161
Monday	Task #: 24 Core Content: KOSSA #: OE001 Description: Installing wheels and lug nuts	Task #:5 Core Content: KOSSA #: AC001 Description: Computer software for student circuit training	Task #: 24 Core Content: KOSSA #: OE001 Description: Installing wheels and lug nuts	Task #: 20 Core Content: RD-10-1.0.4 KOSSA #: OE001 Description: Remove, inspect and replace power steering fluid hoses and fittings
Tuesday	Task #: 25 Core Content: SC-HS-1.1.6 KOSSA #: OE001 Description: Diagnose poor stopping	Task #:5 Core Content: KOSSA #: AC001 Description: Types of Switches, SPST, SPDT, DTST, DTDT	Task #: 25 Core Content: SC-HS-1.1.6 KOSSA #: OE001 Description: Diagnose poor stopping	Task #: 17 Core Content: RD-10-1.0.4 KOSSA #: OD005 Description: Remove, inspect, and replace power steering belt
Wednesday	Task #: 25 Core Content: KOSSA #: OE001 Description: Diagnose grapping and dragging brakes	Task #: 5 Core Content: MA-HS-1.3.1 KOSSA #: OL003 Description: Types of conductors, wire gauge	Task #: 25 Core Content: KOSSA #: OE001 Description: Diagnose grapping and dragging brakes	Task #: 17, 19 Core Content: KOSSA #: OE001 Description: Remove and replace power steering pulley and check pulley and belt alignment
Thursday	Task #: 25 Core Content: SC-HS-1.1.6 KOSSA #: OE001 Description: Pedal pulsating	Task #:5 Core Content: KOSSA #: AC001, OL003 Description: Computer software for student circuit training, including switches	Task #: 25 Core Content: SC-HS-1.1.6 KOSSA #: OE001 Description: Pedal pulsating	Task #: 17, 19 Core Content: KOSSA #: OD005 Description: Remove and replace power steering pulley and check pulley and belt alignment
Friday	Task #: 25 Core Content: KOSSA #: OD002, OD003 Description: Problem solving poor stopping problems	Task #:5 Core Content: KOSSA #: AC001, OL003 Description: Computer software for student circuit training, including switches	Task #: 25 Core Content: KOSSA #: OD002, OD003 Description: Problem solving poor stopping problems	Task #: 18 Core Content: RD-10-1.0.4 KOSSA #: Description: Remove and replace power steering pump

Weekly/Monthly Lesson Schedule

School:	Central ATC	**Program:**	**Automotive Tech**	**School Year:**	**200_ - 0_**	**Week:**	**October 8, 200_**

Day	**Period 1** **Course Title: Brakes Systems** **KCTCS #: AUT 110/111**	**Period 2** **Course Title: Auto Electric** **KCTCS #: ADX 120/121**	**Period 3** **Course Title: Brakes Systems** **KCTCS #: AUT 110/111**	**Period 4** **Course Title: Suspen. & Steer** **KCTCS #: AUT 160/161**
Monday	Task #: 26 Core Content: KOSSA #: OF001 Description: Disc Brake theory	Task #: 5 Core Content: MA-HS-1.3.1 KOSSA #: OL002 Description: Ohm's Law, discussion of voltage current, & resistance	Task #: 26 Core Content: KOSSA #: OF001 Description: Disc Brake theory	Task #: 18 Core Content: RD-10-1.0.4 KOSSA #: OE001 Description: Remove and replace power steering pump practice
Tuesday	Task #: 26 Core Content: SC-HS-1.1.6 KOSSA #: OF001 Description: Disc brake theory and operation	Task #: 5 Core Content: MA-HS-1.3.1 KOSSA #: OL002 Description: Ohm's Law discussion of voltage current, & resistance	Task #: 26 Core Content: SC-HS-1.1.6 KOSSA #: OF001 Description: Disc brake theory and operation	Task #: 8, 9 Core Content: RD-10-1.0.4 KOSSA #: Description: Instruction on power steering binding, turning issues, noise and fluid leaks for rack and pinion and non-rack and pinion
Wednesday	Task #: 26 Core Content: SC-HS-1.1.6 KOSSA #: OI002 Description: Caliper operation and disassembly	Task #: 5 Core Content: MA-HS-1.3.1 KOSSA #: OL002, AC001 Description: Ohm's Law, working problems	Task #: 26 Core Content: SC-HS-1.1.6 KOSSA #: OI002 Description: Caliper operation and disassembly	Task #: 8, 9 Core Content: KOSSA #: OE001 Description: Instruction on power steering binding, turning issues, noise and fluid leaks for rack and pinion and non-rack and pinion
Thursday	Task #: 26 Core Content: KOSSA #: OD005 Description: Caliper and parts inspection	Task #: 5 Core Content: MA-HS-1.3.1 KOSSA #: OL002, AC001 Description: Ohm's Law, working problems using series circuits	Task #: 26 Core Content: KOSSA #: OD005 Description: Caliper and parts inspection	Task #: 8, 9 Core Content: KOSSA #: OE001 Description: Instruction on power steering binding, turning issues, noise and fluid leaks for rack and pinion and non-rack and pinion
Friday	Task #: 26 Core Content: KOSSA #: OE001 Description: replace seals, boots, worn parts	Task #: 5 Core Content: MA-HS-1.3.1 KOSSA #: OL002, AC001 Description: Ohm's Law, working problems using parallel circuits	Task #: 26 Core Content: KOSSA #: OE001 Description: replace seals, boots, worn parts	Task #: 8, 9 Core Content: RD-10-1.0.4 KOSSA #: OE001, OC002 Description: Student practice on power steering binding, turning issues, noise and fluid leaks for rack and pinion and non-rack and pinion

Weekly/Monthly Lesson Schedule

School:	Central ATC	**Program:**	**Automotive Tech**	**School Year:**	**200_ - 0_**	**Week:**	**October 15, 200_**

Day	**Period 1** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 2** Course Title: Auto Electric KCTCS #: ADX 120/121	**Period 3** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 4** Course Title: Suspen. & Steer KCTCS #: AUT 160/161
Monday	Task #: 30 Core Content: KOSSA #: OE001 Description: Reinstall disc brakes	Task #: 5 Core Content: MA-HS-1.3.1 KOSSA #: OL002, AC001 Description: Ohm's Law, working problems using series-parallel circuits	Task #: 30 Core Content: KOSSA #: OE001 Description: Reinstall disc brakes	Task #: 8, 9 Core Content: RD-10-1.0.4 KOSSA #: OE001, OC002 Description: Student practice on power steering binding, turning issues, noise and fluid leaks for rack and pinion and non-rack and pinion
Tuesday	Task #: 30 Core Content: SC-HS-1.1.8 KOSSA #: OE001 Description: Reinstall disc brakes	Task #: 5 Core Content: MA-HS-1.3.1 KOSSA #: OL002, AC001 Description: Test: Ohm's Law and circuits	Task #: 30 Core Content: SC-HS-1.1.8 KOSSA #: OE001 Description: Reinstall disc brakes	Task #: 8, 9 Core Content: RD-10-1.0.4 KOSSA #: OE001, OC002 Description: Student practice on power steering binding, turning issues, noise and fluid leaks for rack and pinion and non-rack and pinion
Wednesday	Task #: 30 Core Content: SC-HS-1.1.8 KOSSA #: OE001 Description: Reinstall disc	Task #: 6 Core Content: KOSSA #: EA001 Description: Wiring diagrams symbols	Task #: 30 Core Content: SC-HS-1.1.8 KOSSA #: OE001 Description: Reinstall disc	Task #: 11 Core Content: RD-10-1.0.4 KOSSA #: OE001, OC002 Description: Adjust manual or power rack and pinion worm bearing
Thursday	Task #: 16 Core Content: KOSSA #: OE001 Description: Bleed brake systems	Task #: 6 Core Content: KOSSA #: EA001 Description: Wiring diagrams symbols	Task #: 16 Core Content: KOSSA #: OE001 Description: Bleed brake systems	Task #: 12 Core Content: KOSSA #: Description: remove and replace manual or power rack and pinion steering gear, inspect bushing and brackets
Friday	Task #: 16 Core Content: KOSSA #: OE001 Description: Bleed brake	Task #: 6 Core Content: KOSSA #: EA001 Description: wiring diagrams as a diagnostic tool	Task #: 16 Core Content: KOSSA #: OE001 Description: Bleed brake	Task #: 12 Core Content: RD-10-1.0.4 KOSSA #: OE001, OC002 Description: remove and replace manual or power rack and pinion steering gear, inspect bushing and brackets

Weekly/Monthly Lesson Schedule

School:	Central ATC	**Program:**	**Automotive Tech**	**School Year:**	**200_ - 0_**	**Week:**	**October 22, 200_**

Day	**Period 1** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 2** Course Title: Auto Electric KCTCS #: ADX 120/121	**Period 3** Course Title: Brakes Systems KCTCS #: AUT 110/111	**Period 4** Course Title: Suspen. & Steer KCTCS #: AUT 160/161
Monday	Task #:16, 26, 27, 29, 30 Core Content: KOSSA #: EC003, OC011 Description: Disc brake disassembly, inspection, reassembly	Task #: 5, 6, 8 Core Content: MA-HS-1.3.1 KOSSA #: AC001, OD002 Description: Use Ohm's Law, circuit theory to diagnosis basic electric problems on car & training device	Task #:16, 26, 27, 29, 30 Core Content: KOSSA #: EC003, OC011 Description: Disc brake disassembly, inspection, reassembly	Task #: 12 Core Content: RD-10-1.0.4 KOSSA #: OE001, OC002 Description: Remove and replace manual or power rack and pinion steering gear, inspect bushing and brackets
Tuesday	Task #: 16, 26, 27, 29,3 0 Core Content: KOSSA #: OC003 Description: Disc brake disassembly, inspection, reassembly	Task #: 5, 6, 8 Core Content: MA-HS-1.3.1 KOSSA #: AC001, OD002 Description: Use Ohm's Law, circuit theory to diagnosis basic electric problems on car & training device	Task #: 16, 26, 27, 29, 30 Core Content: KOSSA #: OC003 Description: Disc brake disassembly, inspection, reassembly	Task #: 13 Core Content: RD-10-1.0.4 KOSSA #: OE001, OC002 Description: Inspect, remove and replace manual or power rack and pinion steering gear inner tie rod end
Wednesday	Task #: 16, 26, 27, 29, 30 Core Content: KOSSA #: OC001 Description: Disc brake disassembly, inspection, reassembly	Task #: 5, 6, 8 Core Content: MA-HS-1.3.1 KOSSA #: AC001, OD002 Description: Use Ohm's Law, circuit theory to diagnosis basic electric problems on car & training device	Task #: 16, 26, 27, 29, 30 Core Content: KOSSA #: OC001 Description: Disc brake disassembly, inspection, reassembly	Task #: 13 Core Content: RD-10-1.0.4 KOSSA #: OE001, OC002 Description: Inspect, remove and replace manual or power rack and pinion steering gear inner tie rod end
Thursday	Task #: 16, 26, 27, 29, 30 Core Content: KOSSA #: OC001 Description: Disc brake disassembly, inspection, reassembly	Task #: 5, 6, 8 Core Content: MA-HS-1.3.1 KOSSA #: AC001, OD002 Description: Use Ohm's Law, circuit theory to diagnosis basic electric problems on car & training device	Task #: 16, 26, 27, 29, 30 Core Content: KOSSA #: OC001 Description: Disc brake disassembly, inspection, reassembly	Task #: Core Content: KOSSA #: Description: Review for test
Friday	Task #: 16, 26, 27, 29, 30 Core Content: KOSSA #: OC001 Description: Test Disc brake disassembly, inspection, reassembly	Task #: 5, 6, 8 Core Content: MA-HS-1.3.1 KOSSA #: AC001, OD002 Description: Use Ohm's Law, circuit theory to diagnosis basic electric problems on car & training device	Task #: 16, 26, 27, 29, 30 Core Content: KOSSA #: OC001 Description: Test Disc brake disassembly, inspection, reassembly	Task #: Core Content: KOSSA #: Description: Take test

Central Area Technology Center — 1st Semester — Current School Year

Teacher	Block 1 Course -	Block 2 Course	Block 3 Course	Block 4 Course
Akers, Mike	CIS 100 Intro to Computers OST 100 Keyboarding	OST 215 Office Procedures WPP 200 Workplace Principles	OST 110 Document Formatting and WP	VCM 100 Intro to Multimedia VCM 200 Basic Interactive Multimedia
Bennett, William	AUT 110 & 111 Brake Systems and Lab AUT 199 and 299 Coop	AUT 160 & 161 Suspension & Steering and Lab AUT 199 and 299 Coop	AUT 110 & 111 Brake Systems and Lab AUT 199 and 299 Coop	ADX 120 & 121 Auto Electricity and Lab AUT 199 and 299 Coop
Jones, Tom	CAR 190 & 191 Floor and Wall Framing and Lab	CAR 126 & 127 Intro to Construction Carpentry and Lab	CAR 150 & 151 Construction Forms and Lab	CAR 140 & 141 Site Layout and Foundations and Lab
Smith, Carla	WLD 140 & 141 GMAW Arc Welding and Lab	WLD 130 & 131 Gas Tungsten Arc Welding and Lab	WLD 143 GMAW Groove Lab	WLD 133 GTAW Groove Lab
Sutton, John	HEA 198 Practicum I MNA 100 Medicaid Nurse Aide	Block 1 Continued for 2 credits	HEA 102 Health Sciences Intro WPP 200 Workplace Principles	CPR 100 CPR SFA 100 Safety and First Aid AHS 120 Medical Terminology
Turner, Missy	ENG 110 Circuits I ENG 111 Circuits I Lab 1 ENG 113 Circuits I Lab 2	ENG 114 Circuits II ENG 115 Circuits II Lab 1 ENG 117 Circuits II Lab 2	EET 154 & 155 Electrical Construction I and Lab	EET 270 & 271 Electrical Motor Controls I & Lab

Central Area Technology Center — 2nd Semester — Current School Year

Teacher	Block 1 Course -	Block 2 Course	Block 3 Course	Block 4 Course
Akers, Mike	IT 130 Web Site Design	OST 235 Business Communication Technology	CIS 130 Microcomputer Applications	OST 225 Intro to Desktop Publishing
Bennett, William	AUT 142 & 143 Emission Systems and Lab AUT 199 and 299 Coop	AUT 140 & 141 Fuel and Ignition Systems and Lab AUT 199 and 299 Coop	AUT 240 & 241 Computer Control Systems and Diagnosis and Lab AUT 199 and 299 Coop	ADX 260 & 261 Electrical Systems and Lab AUT 199 and 299 Coop
Jones, Tom	CAR 196 & 197 Ceiling and Roof Framing and Lab	BRX 220 Blueprint Reading for Construction ISX 100 Industrial Safety	BRX 220 Blueprint Reading for Construction ISX 100 Industrial Safety	CAR 126 & 127 Intro to Construction Carpentry and Lab
Smith, Carla	WLD 100 & 101 Oxy-Fuel Systems and Lab	WLD 120 & 121 SMAW and Lab	WLD 123 SMAW Groove Welds with Backing Lab	WLD 170 & 171 Blueprint Reading for Welding and Lab
Sutton, John	HEA 110 Basic Anatomy and Physiology	AHS 100 Human Growth and Development AHS 130 Infection Control	KMA 100 Kentucky Medication Aide	MAI 170 Dosage Calculations
Turner, Missy	EET 150 & 151 Transformers and Lab	EET 264 & 265 Rotating Machinery and Lab	EET 252 & 253 Electrical Construction II and Lab	EET 268 & 269 Rotating Machinery and Motor Controls I and Lab

COURSE SYLLABUS

School Year:	Current	**H.S. Credits:**	1
School Name:	Central ATC	**Program:**	Automotive Technology
KY Tech Course Name:	Suspension and Steering	**Teacher:**	William Bennett 502-564-4286

KCTCS

Course Number(s)	KCTCS Course Name(s)	College Credits
AUT 160	Suspension and Steering	3
AUT 161	Suspension and Steering Lab	2

Prerequisite: None

Course Description

This course will provide the student the opportunity to gain the technical skills and develop the workplace competencies necessary for an entry-level position as an Automotive Specialty Technician – Front End. The course presents the automotive suspension system, the diagnosing of suspension problems, identifying components, recognizing tire wear problems, wheel balancing and the use of alignment equipment.

Materials Used

- Textbook - Modern Automotive Technology by James Duffy
- Research Software – Shopkey
- Training Software – CDX Automotive Resource Kit/Online Training
- Magazines – Motor Magazine

Objectives

See Task List at http://www.kytechcurriculum.org/functions.asp.

Grading

Grading Scale	Grading Criteria
A 100-93	20% Written assignments
B 92-85	25% Lab daily grade
C 84-76	30% Written and lab tests
D 75-70	25% Final exam
F 69-0	
I Incomplete	

*Courses with grades of less than a "C" will not count toward a certificate or be eligible for dual credit.

Procedures for Makeup Work/Tests

A student will be permitted to make up for Tests and Work not completed provided the student has an excused absence for missing the assignments. Excused absences must be approved by the high school. Bring me a note from your School if you are absent. No note means you are unexcused.

Attendance Policy/Withdrawal Policy

There is a lot of information to be presented. Students are expected to attend and be punctual. In the event the student misses all or part of a class he or she will be expected to make up that days assignment. Withdrawals from class will be handled by the High School. Unless I am notified by the High School, you are still enrolled, and responsible for your assignments.

Supplies

1. Please bring pencils/pens and paper to class. There will be written assignments and tests given. You need to be prepared.
2. You will also need to bring a pair of quality safety glasses. Without the proper eye protection, you will not be able to work in the lab. This is an absolute. No exceptions will be allowed.

Class expectations/Rules

1. Enter room quietly.
2. Do not bring pop or snacks into classroom.
3. Wear proper clothing and safety equipment.
4. Obey all safety rules and regulations.
5. Obey all high school rules and policies.
6. Do not cheat, plagiarize or assist another in cheating.
7. No horseplay
8. Make sure the shop/lab is cleaned and tools are put away before leaving. If we can't find the tools, we can't work in the shop. If the shop is cluttered, we cannot work there safely.
9. Watch your language! You cannot use foul and offensive language in the workplace; therefore, you cannot use it here!
10. Keep your Safety Glasses on while working in the Lab! Keep them on and wear them properly!
11. Be courteous to teachers and fellow students.

Course Outline

Unit I: General Suspension and Steering Systems Diagnosis
Unit II: Steering Systems Diagnosis and Repair
Unit III: Front Suspension Diagnosis and Repair
Unit IV: Rear Suspension Diagnosis and Repair
Unit V. Miscellaneous Suspension Service Diagnosis and Repair
Unit VI: Wheel Alignment Diagnosis, Adjustment and Repair
Unit VII: Wheel and Tire Diagnosis and Repair

There will be a test and research questions over each section listed above, and a final exam covering all areas.

Accommodations for Individuals with Disabilities and Equal Employment Opportunities (EEO)

The Education Cabinet, the Department for Workforce Investment and the Office of Career and Technical Education does not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in educational services and/or employment. The Education Cabinet provides, upon request, reasonable accommodations including auxiliary aids and services necessary to afford an individual with a disability an equal opportunity to participate in all services, programs and activities. To request materials in an alternative format, contact the Civil Rights Compliance Coordinator in OCTE or Norb Ryan at NorbJ.Ryan@ky.gov. Persons with hearing-and speech- impairments can contact the agency by sing the Kentucky Relay Service, a toll-free telecommunication device for the deaf (TDD). For voice to TDD, call 1-800—648-6057. For TDD to voice, call 1-800-648-6056.

The Office of Career and Technical Education does not discriminate on the basis of race, color, national origin, sex, disability, age, marital status, or religion in admission to education programs, activities, and employment practices in accordance with Title VI of the Civil Rights Act of 1964, Title VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973 (revised 1992), and the Americans with Disabilities Act of 1990 and shall provide, upon request by a qualified disabled individual, reasonable accommodations including auxiliary aids and services necessary to afford individuals with a disability an equal opportunity to participate.

For more information, contact Mr. William Denton, Office of Career and Technical Education, 20th Floor CPT, Frankfort, Kentucky 40601, (502) 564-4286. Mr. Denton can also be reached through his e-mail address: WilliamJ.Denton@ky.gov.

Student Signature	Date	Parent/Guardian Signature	Date

Equal Education and Employment Opportunities M/F/D

COURSE SYLLABUS

School Year:	Current	**H.S. Credits:**	1
School Name:	Central ATC	**Program:**	Automotive Technology
KY Tech Course Name:	Brake Systems	**Teacher:**	William Bennett 502-564-4286

KCTCS

Course Number(s)	KCTCS Course Name(s)	College Credits
AUT 110	Brake Systems	3
AUT 111	Brake Systems Lab	2

Prerequisite: None

Course Description

This course will provide the student the opportunity to gain the technical skills and develop the workplace competencies necessary for an entry-level position as a Brake Repair Technician. The course will cover theory and principles related to the design, operation and servicing of automotive brake systems. Topics include disc and drum-type brakes, hydraulic systems, power assist components, anti-lock brake systems and diagnostic procedures.

Materials Used

- Textbook - Modern Automotive Technology by James Duffy
- Research Software – Shopkey
- Training Software – CDX Automotive Resource Kit/Online Training
- Magazines – Motor Magazine

Objectives

See Task List at http://www.kytechcurriculum.org/functions.asp.

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Supplies

Please bring Pencils/Pens and Paper to class. There will be written assignments and tests given. You will need to be prepared.

You will also need to bring a pair of quality safety glasses. Without the proper eye protection, you will not be able to work in the Lab.

This is an absolute. No exceptions will be allowed.

Class expectations/Rules

1. Enter room quietly.
2. Do not bring pop or snacks into classroom.
3. Wear proper clothing and safety equipment.
4. Obey all safety rules and regulations.
5. Obey all high school rules and policies.
6. Do not cheat, plagiarize or assist another in cheating.
7. No horseplay
8. Make sure the shop/lab is cleaned and tools are put away before leaving. If we can't find the tools, we can't work in the shop. If the shop is cluttered, we cannot work there safely.
9. Watch your language! You cannot use foul and offensive language in the workplace; therefore, you cannot use it here!
10. Keep your Safety Glasses on while working in the Lab! Keep them on and wear them properly!
11. Be courteous to teachers and fellow students.

Course Outline

1. General Brake Systems Diagnosis
2. Hydraulic System Diagnosis and Repair
3. Drum Brake Diagnosis and Repair
4. Disc Brake Diagnosis and Repair
5. Power Assist Units Diagnosis and Repair
6. Miscellaneous (Wheel Bearings, Parking Brakes, Electrical) Diagnosis and Repair
7. Antilock Brake and Traction Control Systems Diagnosis and Repair.

There will be a test and research questions over each section listed above, and a final exam covering all areas.

Accommodations for Individuals with Disabilities and Equal Employment Opportunities (EEO)

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individual, reasonable accommodations including auxiliary aids and services necessary to afford individuals with a disability an equal opportunity to participate.

For more information, contact Mr. William Denton, Office of Career and Technical Education, 20th Floor CPT, Frankfort, Kentucky 40601, (502) 564-4286. Mr. Denton can also be reached through his e-mail address: WilliamJ.Denton@ky.gov.

Student Signature	Date	Parent/Guardian Signature	Date

Equal Education and Employment Opportunities M/F/D

COURSE SYLLABUS

School Year:	Current	**H.S. Credits:**	1
School Name:	Central ATC	**Program:**	Automotive Technology
KY Tech Course Name:	Electrical Systems	**Teacher:**	William Bennett 502-564-4286

KCTCS

Course Number(s)	KCTCS Course Name(s)	College Credits
ADX 260	Electrical Systems	3
ADX 261	Electrical Systems Lab	2

Prerequisite(s): ADX 120 – Basic Automotive Electricity and ADX 121 – Basic Automotive Electricity Lab

Course Description

This is the second of two auto electricity courses that will provide the student the opportunity to gain the technical skills and develop the workplace competencies necessary for an entry-level position as a Ground Transportation Electrician. The course focuses on the theory and principles relating to automotive electrical/electronic components.

Materials Used

- Textbook - Modern Automotive Technology by James Duffy
- Research Software – Shopkey
- Training Software – CDX Automotive Resource Kit/Online Training
- Magazines – Motor Magazine

Objectives

See Task List at http://www.kytechcurriculum.org/functions.asp.

Grading

Grading Scale	Grading Criteria
A 100-93	20% Written assignments
B 92-85	25% Lab daily grade
C 84-76	30% Written and lab tests
D 75-70	25% Final exam
F 69-0	
I Incomplete	

*Courses with grades of less than a "C" will not count toward a certificate or be eligible for dual credit.

Procedures for Makeup Work/Tests

A student will be permitted to make up for Tests and Work not completed provided the student has an excused absence for missing the assignments. Excused absences must be approved by the high school. Bring me a note from your School if you are absent. No note means you are unexcused.

Attendance Policy/Withdrawal Policy

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Supplies

1. Please bring pencils/pens and paper to class. There will be written assignments and tests given. You need to be prepared.
2. You will also need to bring a pair of quality safety glasses. Without the proper eye protection, you will not be able to work in the lab. This is an absolute. No exceptions will be allowed.

Class expectations/Rules

1. Enter room quietly.
2. Do not bring pop or snacks into classroom.
3. Wear proper clothing and safety equipment.
4. Obey all safety rules and regulations.
5. Obey all high school rules and policies.
6. Do not cheat, plagiarize or assist another in cheating.
7. No horseplay
8. Make sure the shop/lab is cleaned and tools are put away before leaving. If we can't find the tools, we can't work in the shop. If the shop is cluttered, we cannot work there safely.
9. Watch your language! You cannot use foul and offensive language in the workplace; therefore, you cannot use it here!
10. Keep your Safety Glasses on while working in the Lab! Keep them on and wear them properly!
11. Be courteous to teachers and fellow students.

Course Outline

Unit I: General Electrical System Diagnosis
Unit II: Battery Diagnosis and Repair
Unit III. Starting System Diagnosis and Repair
Unit IV: Charging System Diagnosis and Repair
Unit V: Lighting System Diagnosis and Repair
Unit VI: Gauges, Warning Devices, and Driver Information Systems Diagnosis and Repair
Unit VII: Horn and Wiper/Washer Diagnosis and Repair
Unit VIII: Accessories Diagnosis and Repair

There will be a test and research questions over each section listed above, and a final exam covering all areas.

Accommodations for Individuals with Disabilities and Equal Employment Opportunities (EEO)

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individual, reasonable accommodations including auxiliary aids and services necessary to afford individuals with a disability an equal opportunity to participate.

For more information, contact Mr. William Denton, Office of Career and Technical Education, 20th Floor CPT, Frankfort, Kentucky 40601, (502) 564-4286. Mr. Denton can also be reached through his e-mail address: WilliamJ.Denton@ky.gov.

Student Signature	Date	Parent/Guardian Signature	Date

Equal Education and Employment Opportunities M/F/D

COURSE SYLLABUS

School Year:	Current	**H.S. Credits:**	1
School Name:	Central ATC	**Program:**	Automotive Technology
KY Tech Course Name:	Automotive Electricity	**Teacher:**	William Bennett 502-564-4286

KCTCS

Course Number(s)	KCTCS Course Name(s)	College Credits
ADX 120	Basic Automotive Electricity	3
ADX 121	Basic Automotive Electricity Lab	2

Prerequisite: None

Course Description

This is the first of two auto electricity courses that will provide the student the opportunity to gain the technical skills and develop the workplace competencies necessary for an entry-level position as a Ground Transportation Electrician. The course introduces the student to the principles, theories and concepts of the automotive electrical system that includes the unique diagramming, coding and locating of wiring and component devices.

Materials Used

- Textbook - Modern Automotive Technology by James Duffy
- Research Software – Shopkey
- Training Software – CDX Automotive Resource Kit/Online Training
- Magazines – Motor Magazine

Objectives

See Task List at http://www.kytechcurriculum.org/functions.asp.

Grading

Grading Scale	Grading Criteria
A 100-93	20% Written assignments
B 92-85	25% Lab daily grade
C 84-76	30% Written and lab tests
D 75-70	25% Final exam
F 69-0	
I Incomplete	

*Courses with grades of less than a "C" will not count toward a certificate or be eligible for dual credit.

Procedures for Makeup Work/Tests

A student will be permitted to make up for Tests and Work not completed provided the student has an excused absence for missing the assignments. Excused absences must be approved by the high school. Bring me a note from your School if you are absent. No note means you are unexcused.

Attendance Policy/Withdrawal Policy

There is a lot of information to be presented. Students are expected to attend and be punctual. In the event the student misses all or part of a class he or she will be expected to make up that days assignment. Withdrawals from class will be handled by the High School. Unless I am notified by the High School, you are still enrolled, and responsible for your assignments.

Supplies

1. Please bring pencils/pens and paper to class. There will be written assignments and tests given. You need to be prepared.
2. You will also need to bring a pair of quality safety glasses. Without the proper eye protection, you will not be able to work in the lab. This is an absolute. No exceptions will be allowed.

Class expectations/Rules

1. Enter room quietly.
2. Do not bring pop or snacks into classroom.
3. Wear proper clothing and safety equipment.
4. Obey all safety rules and regulations.
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6. Do not cheat, plagiarize or assist another in cheating.
7. No horseplay
8. Make sure the shop/lab is cleaned and tools are put away before leaving. If we can't find the tools, we can't work in the shop. If the shop is cluttered, we cannot work there safely.
9. Watch your language! You cannot use foul and offensive language in the workplace; therefore, you cannot use it here!
10. Keep your Safety Glasses on while working in the Lab! Keep them on and wear them properly!
11. Be courteous to teachers and fellow students.

Course Outline

Unit I:	General Electrical System Diagnosis
Unit II:	Electrical Circuit Testers
Unit III:	Fuse, Switch and Wiring Diagnosis and Repair

There will be a test and research questions over each section listed above, and a final exam covering all areas.

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Student Signature	Date	Parent/Guardian Signature	Date

Kentucky UNBRIDLED SPIRIT [redacted]

Equal Education and Employment Opportunities M/F/D

COURSE SYLLABUS

School Year:	Current	**H.S. Credits:**	1
School Name:	Central ATC	**Program:**	Automotive Technology
KY Tech Course Name:	Emission Systems	**Teacher:**	William Bennett 502-564-4286

KCTCS

Course Number(s)	KCTCS Course Name(s)	College Credits
AUT 142	Emission Systems	3
AUT 143	Emission Systems Lab	2

Prerequisite(s): None

Course Description

This is one of five courses that will provide the student the opportunity to gain the technical skills and develop the workplace competencies necessary for an entry-level position as a Tune-Up Technician. The course presents the theory, component identification, application, operation and the service and repair of advanced automotive ignition, fuel and emission systems, including related components.

Materials Used

- Textbook - Modern Automotive Technology by James Duffy
- Research Software – Shopkey
- Training Software – CDX Automotive Resource Kit/Online Training
- Magazines – Motor Magazine

Objectives

See Task List at http://www.kytechcurriculum.org/functions.asp.

Grading

Grading Scale	Grading Criteria
A 100-93	20% Written assignments
B 92-85	25% Lab daily grade
C 84-76	30% Written and lab tests
D 75-70	25% Final exam
F 69-0	
I Incomplete	

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Supplies

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9. Watch your language! You cannot use foul and offensive language in the workplace; therefore, you cannot use it here!
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11. Be courteous to teachers and fellow students.

Course Outline

Unit I: General Emissions Diagnosis
Unit II: EGR (Exhaust Gas Recirculation) Diagnosis and Repair
Unit III: Exhaust and EVAP Diagnosis and Repair

There will be a test and research questions over each section listed above, and a final exam covering all areas.

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Student Signature	Date	Parent/Guardian Signature	Date

Equal Education and Employment Opportunities M/F/D

COURSE SYLLABUS

School Year:	Current	**H.S. Credits:**	1
School Name:	Central ATC	**Program:**	Automotive Technology
KY Tech Course Name:	Computer Control Systems and Diagnosis	**Teacher:**	William Bennett 502-564-4286

KCTCS

Course Number(s)	KCTCS Course Name(s)	College Credits
AUT 240	Computer Control Systems and Diagnosis	3
AUT 241	Computer Control Systems and Diagnosis Lab	2

Prerequisite(s): None

Course Description

This is one of five courses that will provide the student the opportunity to gain the technical skills and develop the workplace competencies necessary for an entry-level position as a Tune-Up Technician. The course presents the theory, component identification, application, operation and the service and repair of advanced automotive ignition, fuel and emission systems, including related components.

Materials Used

- Textbook - Modern Automotive Technology by James Duffy
- Research Software – Shopkey
- Training Software – CDX Automotive Resource Kit/Online Training
- Magazines -- Motor Magazine

Objectives

See Task List at http://www.kytechcurriculum.org/functions.asp.

Grading

Grading Scale	Grading Criteria
A 100-93	20% Written assignments
B 92-85	25% Lab daily grade
C 84-76	30% Written and lab tests
D 75-70	25% Final exam
F 69-0	
I Incomplete	

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Supplies

1. Please bring pencils/pens and paper to class. There will be written assignments and tests given. You need to be prepared.
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9. Watch your language! You cannot use foul and offensive language in the workplace; therefore, you cannot use it here!
10. Keep your Safety Glasses on while working in the Lab! Keep them on and wear them properly!
11. Be courteous to teachers and fellow students.

Course Outline

Unit I: General Engine Diagnosis
Unit II: Scan Tool Diagnosis
Unit III: General Engine Performance Diagnosis and Repair
Unit IV: Miscellaneous Computer Control Diagnosis and Repair

There will be a test and research questions over each section listed above, and a final exam covering all areas.

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Student Signature	Date	Parent/Guardian Signature	Date

Equal Education and Employment Opportunities M/F/D

COURSE SYLLABUS

School Year:	Current	**H.S. Credits:**	1
School Name:	Central ATC	**Program:**	Automotive Technology
KY Tech Course Name:	Basic Fuel and Ignition Systems	**Teacher:**	William Bennett 502-564-4286

KCTCS

Course Number(s)	KCTCS Course Name(s)	College Credits
AUT 140	Basic Fuel and Ignition Systems	3
AUT 141	Basic Fuel and Ignition Systems Lab	2

Prerequisite(s): None

Course Description

This is one of five courses that will provide the student the opportunity to gain the technical skills and develop the workplace competencies necessary for an entry-level position as a Tune-Up Technician. The course presents the theory, component identification, application, operation and the service and repair of advanced automotive ignition, fuel and emission systems, including related components.

Materials Used

- Textbook - Modern Automotive Technology by James Duffy
- Research Software – Shopkey
- Training Software – CDX Automotive Resource Kit/Online Training
- Magazines – Motor Magazine

Objectives

See Task List at http://www.kytechcurriculum.org/functions.asp.

Grading

Grading Scale	Grading Criteria
A 100-93	20% Written assignments
B 92-85	25% Lab daily grade
C 84-76	30% Written and lab tests
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F 69-0	
I Incomplete	

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Supplies

1. Please bring pencils/pens and paper to class. There will be written assignments and tests given. You need to be prepared.
2. You will also need to bring a pair of quality safety glasses. Without the proper eye protection, you will not be able to work in the lab. This is an absolute. No exceptions will be allowed.

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10. Keep your Safety Glasses on while working in the Lab! Keep them on and wear them properly!
11. Be courteous to teachers and fellow students.

Course Outline

Unit I: General Fuel and Ignition Diagnosis and Repair
Unit II: Engine Mechanical Diagnosis and Repair
Unit III: Ignition Diagnosis and Repair
Unit IV: Engine Cooling Diagnosis and Repair
Unit V: Miscellaneous Engine Service Diagnosis and Repair

There will be a test and research questions over each section listed above, and a final exam covering all areas.

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Student Signature	Date	Parent/Guardian Signature	Date

Kentucky UNBRIDLED SPIRIT [redacted]

Equal Education and Employment Opportunities M/F/D

COURSE SYLLABUS

School Year:	Current	**H.S. Credits:**	1-3
School Name:	Central ATC	**Program:**	Automotive Technology
KY Tech Course Name:	Cooperative Education	**Teacher:**	William Bennett 502-564-4286

KCTCS

Course Number(s)	KCTCS Course Name(s)	College Credits
AUT 199, 299 or Both	Cooperative Education	1-3

Prerequisite(s): Permission of Teacher

Course Description

This is one of five courses that will provide the student the opportunity to gain the technical skills and develop the workplace competencies necessary for an entry-level position as a Tune-Up Technician. The course presents the theory, component identification, application, operation and the service and repair of advanced automotive ignition, fuel and emission systems, including related components.

Materials Used

- Textbook - Modern Automotive Technology by James Duffy
- Research Software – Shopkey
- Training Software – CDX Automotive Resource Kit/Online Training
- Magazines – Motor Magazine

Objectives

See Task List at http://www.kytechcurriculum.org/functions.asp and coop agreement.

Rules for Coop

1. A student must abide by all the guidelines on the coop agreement.
2. A student must wear proper clothing and safety equipment.
3. A student must watch his/her language! You cannot use foul and offensive language in the workplace.
4. A student must be courteous to supervisors, fellow works and customers.
5. A student must be passing all classes at the high school and technical center to be eligible.
6. A student may not attend coop if he/she does not attend school that same day.
7. If the student is fired, the student does not have the right to another coop job; however, the teacher **MAY** grant permission for another job.
8. The student must consult with the teacher before quitting a coop job.
9. The student must provide a copy of his/her driver license, proof of car insurance, proof of health insurance, and social security card.
10. When two or more students are driving/riding to coop together, each student must have permission in writing from his/her parent to ride together.
11. The student must abide by all school rules while at coop.
12. The coop agreement must be signed by the student, parent/guardian, employer, teacher, and school official.
13. The coop site will be visited by a teacher and/or a school official.
14. The student will receive an evaluation by the employer and a grade from the teacher for the class.

Grading

Grading Scale	Grading Criteria
A 100-93	50% Employer Evaluation
B 92-85	50% Teacher Evaluation
C 84-76	
D 75-70	
F 60-0	
I Incomplete	

*Courses with grades of less than a "C" will not count toward a certificate or be eligible for dual credit.

Procedures for Makeup Work/Tests

A student will be permitted to make up for Tests and Work not completed provided the student has an excused absence for missing the assignments. Excused absences must be approved by the high school. Bring me a note from your School if you are absent. No note means you are unexcused.

Attendance Policy/Withdrawal Policy

Students are expected to attend and be punctual. See *Rules for Coop* above. Withdrawals from class will be handled by the High School. Unless I am notified by the High School, you are still enrolled, and expected to be at work.

Supplies – as required for the coop position

Accommodations for Individuals with Disabilities and Equal Employment Opportunities (EEO)

The Education Cabinet, the Department for Workforce Investment and the Office of Career and Technical Education does not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in educational services and/or employment. The Education Cabinet provides, upon request, reasonable accommodations including auxiliary aids and services necessary to afford an individual with a disability an equal opportunity to participate in all services, programs and activities. To request materials in an alternative format, contact the Civil Rights Compliance Coordinator in OCTE or Norb Ryan at NorbJ.Ryan@ky.gov. Persons with hearing-and speech- impairments can contact the agency by sing the Kentucky Relay Service, a toll-free telecommunication device for the deaf (TDD). For voice to TDD, call 1-800—648-6057. For TDD to voice, call 1-800-648-6056.

The Office of Career and Technical Education does not discriminate on the basis of race, color, national origin, sex, disability, age, marital status, or religion in admission to education programs, activities, and employment practices in accordance with Title VI of the Civil Rights Act of 1964, Title VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973 (revised 1992), and the Americans with Disabilities Act of 1990 and shall provide, upon request by a qualified disabled individual, reasonable accommodations including auxiliary aids and services necessary to afford individuals with a disability an equal opportunity to participate.

For more information, contact Mr. William Denton, Office of Career and Technical Education, 20th Floor CPT, Frankfort, Kentucky 40601, (502) 564-4286. Mr. Denton can also be reached through his e-mail address: WilliamJ.Denton@ky.gov.

Student Signature	Date	Parent/Guardian Signature	Date

Equal Education and Employment Opportunities M/F/D

Education and Workforce Development Cabinet

CURRICULUM MAP

School:	**Central Office**	**Program:**	**Automotive Technology**
Teacher:	**William Bennett**	**School Year:**	**Current**
KCTCS Course Number:	**AUT 110 and 111**	**KY Tech Course Name**	**Brake Systems and Lab**
Length of Course:	**90 Days (18 Weeks)**	**Length of Period**	**1.5 Hours**
High School Credit(s)	**1**		

Kentucky UNBRIDLED SPIRIT

Equal Education and Employment Opportunities M/F/D

Day	Task	Description	Core Content/Skill Standards
Day 1 and 2	Task 1	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction. (Unit #1)	**Core Content:** PL-HS-4.1.3 PL-HS-4.2.1 **Skills Standards:** OH003 EG011
Day 3, 4 and 5	Task 2	Identify and interpret brake system concern; determine necessary action. (Unit #1)	**Core Content**: PL-HS-4.1.3 RD-10-2.0.2 RD-10-2.0.3 RD-10-2.0.4 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD004
Day 6	Task 3	Research applicable vehicle and service information, such as brake system operation, vehicle service history, service precautions, and technical service bulletins. (Unit #1)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OE001 OH003
Day 7	Task 4	Locate and interpret vehicle and major component identification numbers (VIN, vehicle certification labels, calibration decals). (Unit #1)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OE001 OH003

Day 8 and 9	Task 5	Diagnose pressure concerns in the brake system using hydraulic principles (Pascal's Law). (Unit #2)	**Core Content:** MA-HS-1.3.1 **Skills Standards:** AB003 AB005 AC001
Day 10	Task 6	Measure brake pedal height; determine necessary action. (Unit #2)	**Core Content:** MA-HS-1.3.1 **Skills Standards:** AB003 AB005 AC001
Day 11 and 12	Task 7	Check master cylinder for internal and external leaks and proper operation; determine necessary action. (Unit #2)	**Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OC005 OH003 OJ003
Day 13 and 14	Task 8	Remove, bench bleed, and reinstall master cylinder. (Unit #2)	**Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OC005 OH003 OJ003

Day 15, 16 and 17	Task 9	Diagnose poor stopping, pulling, or dragging concerns caused by malfunctions in the hydraulic system; determine necessary action.(Unit #2)	**Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OC005 OH003 OJ003
Day 18 and 19	Task 10	Inspect brake lines, flexible hoses, and fittings for leaks, dents, kinks, rust, cracks, bulging or wear; tighten loose fittings and supports; determine necessary action. (Unit #2)	**Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OC005 OH003 OJ003
Day 20 and 21	Task 11	Fabricate and/or install brake lines (double flare or ISO types); replace hoses, fittings, and supports as needed. (Unit #2)	**Core Content:** RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: EC002 OH003
Day 22	Task 12	Select, handle, store, and fill brake fluids to proper level. (Unit #2)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OJ002 OD005 OJ003

Day 23	Task 13	Inspect, test, and/or replace metering (hold-off), proportioning (balance), pressure differential, and combination valves. (Unit #2)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 24	Task 14	Inspect, test, and adjust height (load) sensing proportioning valve. (Unit #2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OH003 EC002
Day 25	Task 15	Inspect, test, and/or replace components of brake warning light system. (Unit #2)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 26 and 27	Task 16	Bleed (manual, pressure, vacuum or surge) brake system. (Unit #2)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OH003 EC002
Day 28	Task 17	Flush hydraulic system. (Unit #2)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.1 **Skills Standards**: OH003 EC002

Day 29, 30 and 31	Task 18	Diagnose poor stopping, noise, vibration, pulling, grabbing, dragging or pedal pulsation concerns; determine necessary action. (Drum Brakes) (Unit #3)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.1 **Skills Standards:** OH003 EC002
Day 32	Task 19	Remove, clean (using proper safety procedures), inspect, and measure brake drums; determine necessary action. (Unit #3)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.1 **Skills Standards**: OH003 EC002
Day 33	Task 20	Refinish brake drum. (Unit #3)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OH003 EC002
Day 34	Task 21	Remove, clean, and inspect brake shoes, springs, pins, clips, levers, adjusters/self-adjusters, other related brake hardware, and backing support plates; lubricate and reassemble. (Unit #3)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 35	Task 22	Remove, inspect, and install wheel cylinders. (Unit #3)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.1 **Skills Standards:** OH003 EC002

Day 36	Task 23	Pre-adjust brake shoes and parking brake before installing brake drums or drum/hub assemblies and wheel bearings. (Unit #3)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OH003 EC002
Day 36	Task 24	Install wheel, torque lug nuts, and make final checks and adjustments. (Drum Brake Service) (Unit #3)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.1 **Skills Standards:** OH003 EC002
Day 37, 38 and 39	Task 25	Diagnose poor stopping, noise, pulling, grabbing, dragging or pedal pulsation concerns; determine necessary action. (Disc Brakes) (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.1 **Skills Standards:** OH003 EC002
Day 40-44	Task 26	Remove caliper assembly from mountings; clean and inspect for leaks and damage to caliper housing; determine necessary action. (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 45	Task 27	Clean and inspect caliper mounting and slides for wear and damage; determine necessary action. (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002

Day 46	Task 28	Remove, clean, and inspect pads and retaining hardware; determine necessary action. (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 47	Task 29	Disassemble and clean caliper assembly; inspect parts for wear, rust, scoring, and damage; replace seal, boot and damaged or worn parts. (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 48	Task 30	Reassemble, lubricate, and reinstall caliper, pads, and related hardware; seat pads, and inspect for leaks. (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.1 **Skills Standards:** OH003 EC002
Day 49	Task 31	Clean, inspect, measure rotor with dial indicator and a micrometer; follow manufacturer's recommendations in determining need to machine or replace. (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 MA-HS-1.3.1 **Skills Standards:** OH003 EC002
Day 50	Task 32	Remove and reinstall rotor. (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.1 **Skills Standards:** OH003 EC002

Day 51	Task 33	Refinish rotor on vehicle. (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.1 **Skills Standards:** OH003 EC002
Day 52	Task 34	Refinish rotor off vehicle. (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.1 **Skills Standards:** OH003 EC002
Day 53	Task 35	Adjust calipers with an equipped integrated parking brake system. (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 54	Task 36	Install wheel, torque lug nuts, and make final checks and adjustments. (Disc Brake Service) (Unit #4)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 55	Task 37	Test pedal free travel with and without engine running; check power assist operation. (Unit #5)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 MA-HS-1.3.1 **Skills Standards:** OH003 EC002

Day 56	Task 38	Check vacuum supply (manifold or auxiliary pump) to vacuum-type power booster. (Unit #5)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 57	Task 39	Inspect vacuum-type power booster unit for vacuum leaks; inspect check valve for proper operation; determine necessary action. (Unit #5)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 60	Task 40	Inspect and test hydraulically assisted power brake system for leaks and proper operation; determine necessary action. (Unit #5)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.1 **Skills Standards:** OH003 EC002
Day 61	Task 41	Measure and adjust master cylinder pushrod length. (Unit #5)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 62 and 63	Task 42	Diagnose wheel bearing noises; wheel shimmy, and vibration concerns; determine necessary action. (Unit #6)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002

Day 64	Task 43	Remove, clean, inspect, repack, and install wheel bearings and replace seals; reinstall hub and adjust wheel bearings. (Unit #6)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OH003 EC002
Day 65	Task 44	Check parking brake cables and components for wear, rusting, binding, and corrosion; clean, lubricate, or replace as needed. (Unit #6)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 66 and 67	Task 45	Check parking brake operation; determine necessary action. (Unit #6)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 68	Task 46	Check operation of parking brake indicator light system. (Unit #6)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 69	Task 47	Check operation of brake stop light system; determine necessary action. (Unit #6)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OH003 EC002

Day 70, 71 and 72	Task 48	Replace wheel bearing and race. (Unit #6)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 73 and 74	Task 49	Inspect and replace wheel studs. (Unit #6)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OH003 EC002
Day 75, 76 and 77	Task 50	Remove and reinstall sealed wheel bearing assembly. (Unit #6)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 78 and 79	Task 51	Identify and inspect antilock brake system (ABS) components; determine necessary action. (Unit #7)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OH003 EC002
Day 80, and 81	Task 52	Diagnose poor stopping, wheel lock-up, abnormal pedal feel or pulsation, and noise concerns caused by the antilock brake system (ABS); determine necessary action. (Unit #7)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002

Day 82 and 83	Task 53	Diagnose antilock brake system (ABS) electronic control(s) and components using self-diagnosis and/or recommended test equipment; determine necessary action. (Unit #7)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OH003 EC002
Day 84	Task 54	Depressurize high-pressure components of the antilock brake system (ABS). (Unit #7)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 85	Task 55	Bleed the anti-lock brake system's (ABS) front and rear hydraulic circuits. (Unit #7)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 86	Task 56	Remove and install antilock brake system (ABS) electrical/electronic and hydraulic components. (Unit #7)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OH003 EC002
Day 87 and 88	Task 57	Test, diagnose, and service ABS speed sensors, toothed ring (tone wheel), and circuits using a graphing multimeter (GMM)/digital storage oscilloscope (DSO) (includes output signal, resistance, shorts to voltage/ground, and frequency data) (Unit #7)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002

Day 89	Task 58	Diagnose antilock brake system (ABS) braking concerns caused by vehicle modifications (tire size, curb height, final drive ratio, etc.). (Unit #7)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002
Day 90	Task 59	Identify traction control/vehicle stability control system components. (Unit #7)	**Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OH003 EC002

Education and Workforce Development Cabinet

CURRICULUM MAP

School:	**Central Office**	**Program:**	**Automotive Technology**
Teacher:	**William Bennett**	**School Year:**	**Current**
KCTCS Course Number:	**AUT 240 and 241**	**KY Tech Course Name**	**Computer Control Systems and Lab**
Length of Course:	**1 semester**	**Length of Period**	**1.5 Hours**
High School Credit(s)	**1**		

Kentucky UNBRIDLED SPIRIT

Equal Education and Employment Opportunities M/F/D

Day	Task Number	Task Description	Core Content/Skill Standards
1-3	1	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.	Core Content: PL-HS-4.1.3 PL-HS-4.2.1 RD-10-2.0.2 Skills Standards: OH003 EG011
4-9	2	Diagnose abnormal engine noise or vibration problems; determine necessary action	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
10-12	3	Research applicable vehicle and service information, such as engine management system operation, vehicle service history, service precautions, and technical service bulletins.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
13-15	4	Locate and interpret vehicle and major component identification numbers.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003

Day	Task Number	Task Description	Core Content/Skill Standards
16 -22	5	Diagnose abnormal exhaust color, odor, and sound; determine necessary action.	Core Content: PL-HS-4.1.3 RD-10-2.0.2 RD-10-2.0.3 RD-10-2.0.4 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD004
23-30	6	Retrieve and record diagnostic trouble codes, OBD monitor status, and freeze frame data; clear codes when applicable.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
31-38	7	Diagnose the causes of emissions or driveability concerns with stored or active diagnostic trouble codes; obtain, graph, and interpret scan tool data.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
39-45	8	Diagnose emissions or driveability concerns without stored diagnostic trouble codes; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002

Day	Task Number	Task Description	Core Content/Skill Standards
46-50	9	Check for module communication (including CAN/BUS systems) errors using a scan tool.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
51-60	10	Inspect and test computerized engine control system sensors, powertrain/engine control module (PCM/ECM), actuators, and circuits using a graphing multimeter (GMM)/digital storage oscilloscope (DSO); perform necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
61-66	11	Access and use service information to perform step-by-step diagnosis.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
67-72	12	Diagnose driveability and emissions problems resulting from malfunctions of interrelated systems (cruise control, security alarms, suspension controls, traction controls, A/C, automatic transmissions, non-OEM-installed accessories, or similar systems); determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
73-74	13	Perform active tests of actuators using a scan tool; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003

Day	Task Number	Task Description	Core Content/Skill Standards
75-79	14	Diagnose ignition system related problems such as no-starting, hard starting, engine misfire, poor driveability, spark knock, power loss, poor mileage, and emissions concerns; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
80-82	15	Inspect and test crankshaft and camshaft position sensor(s); perform necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
83-84	16	Inspect, test, and/or replace ignition control module, powertrain/engine control module; reprogram as necessary.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
85-88	17	Diagnose hot or cold no-starting, hard starting, poor driveability, incorrect idle speed, poor idle, flooding, hesitation, surging, engine misfire, power loss, stalling, poor mileage, dieseling, and emissions problems; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002

Day	Task Number	Task Description	Core Content/Skill Standards
89	18	Inspect throttle body, air induction system, intake manifold and gaskets for vacuum leaks and/or unmetered air.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
90	19	Identify hybrid vehicle internal combustion engine service precautions.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003

Education and Workforce Development Cabinet

CURRICULUM MAP

School:	**Central Office**	**Program:**	**Automotive Technology**
Teacher:	**William Bennett**	**School Year:**	**Current**
KCTCS Course Number:	**ADX 120 and 121**	**KY Tech Course Name**	**Basic Automotive Electricity and Lab**
Length of Course:	**45 Days (9 Weeks)**	**Length of Period**	**3 Hours**
High School Credit(s)	**1**		

Kentucky UNBRIDLED SPIRIT

Equal Education and Employment Opportunities M/F/D

Day 1 Task 1: Complete Work Order to Include Customer Information. **Core Content:** PL-HS-4.1.3 PL-HS-4.2.1 **Skills Standards:** OH003 EG011	Day 2 Task 1: Complete Work Order to Include Customer Information. **Core Content:** PL-HS-4.1.3 PL-HS-4.2.1 **Skills Standards:** OH003 EG011	Day 3 Task 2: Identify and Interpret Electrical/Electronic System Concern **Core Content:** PL-HS-4.1.3 RD-10-2.0.2 RD-10-2.0.3 RD-10-2.0.4 SC-HS-1.2.2 **Skills Standards:** OD002 OD003 OD004	Day 4 Task 2: Identify and Interpret Electrical/Electronic System Concern **Core Content:** PL-HS-4.1.3 RD-10-2.0.2 RD-10-2.0.3 RD-10-2.0.4 SC-HS-1.2.2 **Skills Standards:** OD002 OD003 OD004	Day 5: Task 2: Identify and Interpret Electrical/Electronic System Concern **Core Content:** PL-HS-4.1.3 RD-10-2.0.2 RD-10-2.0.3 RD-10-2.0.4 SC-HS-1.2.2 **Skills Standards:** OD002 OD003 OD004
Day 6 Task 3 and 4: Research Applicable Vehicle and Service Information; Locate and Interpret VIN Numbers. **Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OE001 OH003	Day 7 Task 3 and 4: Research Applicable Vehicle and Service Information; Locate and Interpret VIN Numbers. **Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OE001 OH003	Day 8 Task 5 Diagnose Series, Parallel, and Series/Parallel Circuits using Ohms Law **Core Content:** MA-HS-1.3.1 **Skills Standards:** AB003 AB005 AC001	Day 9 Task 5 Diagnose Series, Parallel, and Series/Parallel Circuits using Ohms Law **Core Content:** MA-HS-1.3.1 **Skills Standards:** AB003 AB005 AC001	Day 10 Task 5 Diagnose Series, Parallel, and Series/Parallel Circuits using Ohms Law **Core Content:** MA-HS-1.3.1 **Skills Standards:** AB003 AB005 AC001
Day 11 Task 6 Use Wiring Diagrams during Diagnosis of Electrical Circuit Problems **Core Content:** RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards:** OH003 EC002	Day 12 Task 5 Use Wiring Diagrams during Diagnosis of Electrical Circuit Problems **Core Content:** RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards:** OH003 EC002	Day 13 Task 7 Demonstrate the Proper Use of a Digital Multimeter (DMM) During Diagnosis of Electrical Circuit Problems **Core Content:** RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OD002 OD003 OD005 AE002	Day 13 Task 7 Demonstrate the Proper Use of a Digital Multimeter (DMM) During Diagnosis of Electrical Circuit Problems **Core Content:** RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OD002 OD003 OD005 AE002	Day 13 Task 7 Demonstrate the Proper Use of a Digital Multimeter (DMM) During Diagnosis of Electrical Circuit Problems **Core Content:** RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OD002 OD003 OD005 AE002

Day 14 Task 8 Check Electrical Circuits with a Test Light; Determine Necessary Action **Core Content:** RD-10-2.0.2 SC-HS-1.2.2 **Skills Standards:** OD002 OD003 OD004 OD005	Day 15 Task 9 Measure Source Voltage and Perform Voltage Drop Tests in Electrical/Electronic Circuits Using a Voltmeter **Core Content:** RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OD002 OD003 OD004	Day 16 Task 9 Measure Source Voltage and Perform Voltage Drop Tests in Electrical/Electronic Circuits Using a Voltmeter **Core Content:** RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OD002 OD003 OD004	Day 17 Task 10 Measure Current Flow in Electrical/Electronic Circuits and Components Using an Ammeter **Core Content:** RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: EC001 EC002	Day 18 Task 10 Measure Current Flow in Electrical/Electronic Circuits and Components Using an Ammeter **Core Content:** RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: EC001 EC002
Day 19 Task 11 Check Continuity and Measure Resistance in Electrical/Electronic Circuits and Components/Ohmmeter **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OC005 OH003 OJ003	Day 20 Task 11 Check Continuity and Measure Resistance in Electrical/Electronic Circuits and Components/Ohmmeter **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OC005 OH003 OJ003	Day 21 Task 11 Check Continuity and Measure Resistance in Electrical/Electronic Circuits and Components/Ohmmeter **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OC005 OH003 OJ003	Day 22 Task 11 Check Continuity and Measure Resistance in Electrical/Electronic Circuits and Components/Ohmmeter **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OC005 OH003 OJ003	Day 23 Task 11 Check Continuity and Measure Resistance in Electrical/Electronic Circuits and Components/Ohmmeter **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OC005 OH003 OJ003

Day 24 Task 12 Check Electrical Circuits Using Fused Jumper Wires **Core Content:** RD-10-2.0.2 SC-HS-1.2.2 **Skills Standards:** OC005 OH003 OJ003	Day 25 Task 12 Check Electrical Circuits Using Fused Jumper Wires **Core Content:** RD-10-2.0.2 SC-HS-1.2.2 **Skills Standards:** OC005 OH003 OJ003	Day 26 Task 13 Locate Shorts, Grounds, Opens, and Resistance Problems in Electrical/Electronic Circuits **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OB004	Day 27 Task 13 Locate Shorts, Grounds, Opens, and Resistance Problems in Electrical/Electronic Circuits **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OB004	Day 28 Task 13 Locate Shorts, Grounds, Opens, and Resistance Problems in Electrical/Electronic Circuits **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OB004
Day 29 Task 13 Locate Shorts, Grounds, Opens, and Resistance Problems in Electrical/Electronic Circuits **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OB004	Day 30 Task 13 Locate Shorts, Grounds, Opens, and Resistance Problems in Electrical/Electronic Circuits **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OB004	Day 31 Task 14 Measure and Diagnose the Cause(s) of Excessive Key-Off Battery Drain (Parasitic Draw) **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OJ003 OL002	Day 32 Task 14 Measure and Diagnose the Cause(s) of Excessive Key-Off Battery Drain (Parasitic Draw) **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OJ003 OL002	Day 33 Task 14 Measure and Diagnose the Cause(s) of Excessive Key-Off Battery Drain (Parasitic Draw) **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OJ003 OL002
Day 34 Task 15 Inspect and Test Fusible Links, Circuit Breakers, and Fuses: Determine Necessary Action **Core Content:** RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards:** EC002 OH003	Day 35 Task 15 Inspect and Test Fusible Links, Circuit Breakers, and Fuses: Determine Necessary Action **Core Content:** RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards:** EC002 OH003	Day 36 Task 15 Inspect and Test Fusible Links, Circuit Breakers, and Fuses: Determine Necessary Action **Core Content:** RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards:** EC002 OH003	Day 37 Task 15 Inspect and Test Fusible Links, Circuit Breakers, and Fuses: Determine Necessary Action **Core Content:** RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards:** EC002 OH003	Day 38 Task 15 Inspect and Test Fusible Links, Circuit Breakers, and Fuses: Determine Necessary Action **Core Content:** RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards:** EC002 OH003

Day 39 Task 16 Remove and Replace Terminal End from Connector **Core Content:** RD-10-2.0.3 **Skills Standards:** EC002 OH003	Day 40 Task 17 Repair Connectors and Terminal Ends **Core Content:** RD-10-2.0.3 Skills Standards: EC002 OH003	Day 41 Task 18 Inspect and Test Switches, Connectors, Relays, Solid-State Devices, and Wires of Electrical/Electronic Systems, Perform Necessary Action **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OH001 OH002 EC002	Day 42 Task 18 Inspect and Test Switches, Connectors, Relays, Solid-State Devices, and Wires of Electrical/Electronic Systems, Perform Necessary Action **Core Content:** MA-HS-4.1.1 RD-10-2.0.3 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards:** OH001 OH002 EC002	Day 43 Task 19 and 20 Repair Wiring Harness (Including CAN/BUS System)-Perform Solder Repair of Electrical Wiring **Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OJ002 OD005 OJ003
Day 44 Task 19 and 20 Repair Wiring Harness (Including CAN/BUS System)-Perform Solder Repair of Electrical Wiring **Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OJ002 OD005 OJ003	Day 45 Task 19 and 20 Repair Wiring Harness (Including CAN/BUS System)-Perform Solder Repair of Electrical Wiring **Core Content:** RD-10-2.0.2 RD-10-2.0.3 **Skills Standards:** OJ002 OD005 OJ003			

Education and Workforce Development Cabinet

CURRICULUM MAP

School:	**Central Office**	**Program:**	**Automotive Technology**
Teacher:	**William Bennett**	**School Year:**	**Current**
KCTCS Course Number:	**AUT 260 and 261**	**KY Tech Course Name**	**Electrical/Electronic Systems and Lab**
Length of Course:	**Trimester (2 of 3, 12-week periods)**	**Length of Period**	**Approximately 1 Hour**
High School Credit(s)	**1**		

Kentucky UNBRIDLED SPIRIT

Equal Education and Employment Opportunities M/F/D

Days	Task No.	Task	Core Content/Skill Standards
Day 1 and 2	1	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.	Core Content: PL-HS-4.1.3 PL-HS-4.2.1 Skills Standards: OH003 EG011
Day 2, 3, 4 and 5	2	Identify and interpret electrical/electronic system concern; determine necessary action.	Core Content: PL-HS-4.1.3 RD-10-2.0.2 RD-10-2.0.3 RD-10-2.0.4 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD004
Day 5 and 6	3	Research applicable vehicle and service information such as electrical/electronic system operation, vehicle service history, service precautions, and technical service bulletins.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
Day 7 and 8	4	Locate and interpret vehicle and major component identification numbers.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003

Days	Task No.	Task	Core Content/Skill Standards
Day 9, 10 and 11	5	Check electrical/electronic circuit waveforms; interpret readings and determine needed repairs.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 12, 13 and 14	6	Perform battery state-of-charge test; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 15 and 16	7	Perform battery capacity test; confirm proper battery capacity for vehicle application; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 17 and 18	8	Maintain or restore electronic memory functions.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003

Days	Task No.	Task	Core Content/Skill Standards
Day 19 and 20	9	Inspect, clean, fill, and/or replace battery, battery cables, connectors, clamps, and hold-downs.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 21 and 22	10	Perform battery charge.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 23 and 24	11	Start a vehicle using jumper cables or an auxiliary power supply.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 25	12	Identify high voltage circuits of electric or hybrid electric vehicle and related safety precautions.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002

Days	Task No.	Task	Core Content/Skill Standards
Day 26	13	Identify electronic modules, security systems, radios, and other accessories that require reinitialization or code entry following battery disconnect.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
Day 27	14	Identify hybrid vehicle auxiliary (12v) battery service, repair and test procedures.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002
Day 28, 29, 30 and 31	15	Perform starter current draw tests; determine necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002

Days	Task No.	Task	Core Content/Skill Standards
Day 32, 33, 34 and 35	16	Perform starter circuit voltage drop tests; determine necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002
Day 36, 37 and 38	17	Inspect and test starter relays and solenoids; determine necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002
Day 39, 40, 41 and 42	18	Remove and install starter in a vehicle.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
Day 43, 44 and 45	19	Inspect and test switches, connectors, and wires of starter control circuits; perform necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002

Days	Task No.	Task	Core Content/Skill Standards
Day 46, 47 and 48	20	Differentiate between electrical and engine mechanical problems that cause a slow-crank or no-crank condition.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 49, 50, 51 and 52	21	Perform charging system output test; determine necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002
Day 53, 54, 55, 56 and 57	22	Diagnose charging system for the cause of undercharge, no-charge and overcharge conditions.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002
Day 58	23	Inspect, adjust, or replace generator (alternator) drive belts pulleys, and tensioners; check pulley and belt alignment; replace as needed.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003

Days	Task No.	Task	Core Content/Skill Standards
Day 59 and 60	24	Remove, inspect, and install generator (alternator).	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
		Second 12 Weeks	
Day 1, 2, 3 and 4	25	Perform charging circuit voltage drop tests; determine necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002
Day 5 and 6	26	Diagnose the cause of brighter than normal, intermittent, dim, or no light operation; determine necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002
Day 7 and 8	27	Inspect, replace, and aim headlights and bulbs.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003

Days	Task No.	Task	Core Content/Skill Standards
Day 9, 10 and 11	28	Inspect and diagnose incorrect turn signal or hazard light operation; perform necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 12 and 13	29	Identify system voltage and safety precautions associated with high intensity discharge headlights.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
Day 14, 15 and 16	30	Inspect and test gauges and gauge sending units for cause of abnormal gauge readings; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 17, 18 and 19	31	Inspect and test connectors, wires, and printed circuit boards of gauge circuits; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002

Days	Task No.	Task	Core Content/Skill Standards
Day 20, 21 and 22	32	Diagnose the cause of incorrect operation of warning devices and other drive information systems; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 23, 24 and 25	33	Inspect and test sensors, connectors, and wires of electronic (digital) instrument circuits; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 26 and 27	34	Diagnose incorrect horn operation; perform necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002
Day 28, 29 and 30	35	Diagnose incorrect wiper operation; diagnose wiper speed control and park problems; perform necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002

Days	Task No.	Task	Core Content/Skill Standards
Day 31 and 32	36	Diagnose incorrect washer operation; perform necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002
Day 33, 34 and 35	37	Diagnose incorrect operation of motor-driven accessory circuits; determine necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002
Day 36 and 37	38	Diagnose incorrect heated glass, mirror, or seat operation; determine necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002

Days	Task No.	Task	Core Content/Skill Standards
Day 38 and 39	39	Diagnose incorrect electric lock operation (including remote keyless entry); determine necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005AE002
Day 40 and 41	40	Diagnose incorrect operation of cruise control systems; determine necessary action.	Core Content: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 Skills Standards: OD002 OD003 OD005 AE002
Day 42, 43 and 44	41	Diagnose supplemental restraint system (SRS) concerns; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002
Day 45 and 46	42	Disarm and enable the airbag system for vehicle service.	Core Content: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 Skills Standards: OH003 EC002

Days	Task No.	Task	Core Content/Skill Standards
Day 47 and 48	43	Diagnose radio static and weak, intermittent, or no radio reception; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
Day 49, 50 and 51	44	Remove and reinstall door panel.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
Day 52 and 53	45	Diagnose body electronic system circuits using a scan tool; determine necessary action.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
Day 54 and 55	46	Check for module communication (including CAN/BUS systems) errors using a scan tool.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
Day 56 and 57	47	Diagnose the cause of false, intermittent, or no operation of anti-theft system.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003

Days	Task No.	Task	Core Content/Skill Standards
Day 58	48	Describe the operation of keyless entry/remote-start systems.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003
Day 59 and 60	49	Perform software transfers, software updates, or flash reprogramming on electronic modules.	Core Content: RD-10-2.0.2 RD-10-2.0.3 Skills Standards: OE001 OH003

Education and Workforce Development Cabinet

CURRICULUM MAP

School:	**Central Office**	**Program:**	**Automotive Technology**
Teacher:	**William Bennett**	**School Year:**	**Current**
KCTCS Course Number:	**AUT 142 and 143**	**KY Tech Course Name**	**Emissions Systems and Lab**
Length of Course:	**1 semester**	**Length of Period**	**1.5 Hours**
High School Credit(s)	**1**		

Kentucky UNBRIDLED SPIRIT

Equal Education and Employment Opportunities M/F/D

Day	Task Number	Task Description	Core Content/Skill Standards
1, 2 and 3	1	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.	**Core Content**: PL-HS-4.1.3 PL-HS-4.2.1 **Skills Standards**: OH003 EG011
4, 5 and 6	2	Research applicable vehicle and service information, such as engine management system operation, vehicle service history, service precautions, and technical service bulletins.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
7 and 8	3	Locate and interpret vehicle and major component identification numbers.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
9, 10, 11 and 12	4	Prepare 4 or 5-gas analyzer; inspect and prepare vehicle for test; obtain exhaust readings.	**Core Content**: PL-HS-4.1.3 RD-10-2.0.2 RD-10-2.0.3 RD-10-2.0.4 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD004

Day	Task Number	Task Description	Core Content/Skill Standards
13, 14, 15, 16 and 17	5	Perform cooling system pressure tests; check coolant condition; inspect and test radiator, pressure cap, coolant recovery tank, and hoses; perform necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
18, 19, 20, 21 and 22	6	Inspect the integrity of the exhaust manifold, exhaust pipes, muffler(s), catalytic converter(s), resonator(s), tail pipe(s), and heat shield(s); perform necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
23, 24, 25 and 26	7	Perform exhaust system back-pressure test; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
27, 28, 29, 30 and 31	8	Diagnose oil leaks, emissions, and driveability concerns caused by the positive crankcase ventilation (PCV) system; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002

Day	Task Number	Task Description	Core Content/Skill Standards
32, 33, 34 and 35	9	Inspect, test and service positive crankcase ventilation (PCV) filter/breather cap, valve, tubes, orifices, and hoses; perform necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
36, 37, 38, 39 and 40	10	Diagnose emissions and driveability concerns caused by the exhaust gas recirculation (EGR) system; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
41, 42, 43, 44, 45 and 46	11	Inspect, test, service and replace components of the EGR system, including EGR tubing, exhaust passages, vacuum/pressure controls, filters and hoses; perform necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
47, 48, 49, 50 and 51	12	Inspect and test electrical/electronic sensors, controls, and wiring of exhaust gas recirculation (EGR) systems; perform necessary action.	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002

Day	Task Number	Task Description	Core Content/Skill Standards
52 through 70	13	Diagnose emissions and driveability concerns caused by the secondary air injection and catalytic converter systems; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
71, 72, 73, 74 and 75	14	Inspect and test mechanical components of secondary air injection systems; perform necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
76, 77, 78 and 79	15	Inspect and test electrical/electronically-operated components and circuits of air injection systems; perform necessary action.	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
80, 81, 82 and 83	16	Inspect and test catalytic converter efficiency.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003

Day	Task Number	Task Description	Core Content/Skill Standards
84, and 85	17	Diagnose emissions and driveability concerns caused by the evaporative emissions control system; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
86 and 87	18	Inspect and test components and hoses of the evaporative emissions control system; perform necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
88, 89 and 90	19	Interpret diagnostic trouble codes (DTCs) and scan tool data related to the emissions control systems; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003

Education and Workforce Development Cabinet

CURRICULUM MAP

School:	**Central Office**	**Program:**	**Automotive Technology**
Teacher:	**William Bennett**	**School Year:**	**Current**
KCTCS Course Number:	**AUT 140 and 141**	**KY Tech Course Name**	**Basic Fuel and Ignition Systems and Lab**
Length of Course:	**1 semester**	**Length of Period**	**1.5 Hours**
High School Credit(s)	**1**		

Kentucky UNBRIDLED SPIRIT

Equal Education and Employment Opportunities M/F/D

Days	Task Number	Task Description	Core Content/Skill Standards
1 - 3	1	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
4 - 9	2	Inspect engine assembly for fuel, oil, coolant, and other leaks; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
10 - 20	3	Identify and interpret engine performance concern; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
21 - 24	4	Research applicable vehicle and service information, such as engine management system operation, vehicle service history, service precautions, and technical service bulletins	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003

Days	Task Number	Task Description	Core Content/Skill Standards
25 - 27	5	Locate and interpret vehicle and major component identification numbers.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
28 - 32	6	Perform engine absolute (vacuum/boost) manifold pressure tests; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
33 - 37	7	Perform cylinder power balance test; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
38 - 42	8	Perform cylinder cranking and running compression tests; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002

Days	Task Number	Task Description	Core Content/Skill Standards
43 - 48	9	Perform cylinder leakage test; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
49 - 55	10	Diagnose engine mechanical, electrical, electronic, fuel, and ignition concerns; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
56 - 58	11	Verify engine operating temperature; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
59 - 62	12	Verify correct camshaft timing.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003

Days	Task Number	Task Description	Core Content/Skill Standards
63 - 65	13	Inspect and test ignition primary and secondary circuit wiring and solid state components; test ignition coil(s); perform necessary action	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
66 - 67	14	Check fuel for contaminants and quality; determine necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
68 - 69	15	Inspect and test fuel pumps and pump control systems for pressure, regulation, and volume; perform necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
70	16	Replace fuel filters.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003

Days	Task Number	Task Description	Core Content/Skill Standards
71 - 73	17	Inspect and test fuel injectors.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
74	18	Test the operation of turbocharger/supercharger systems; determine necessary action	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
75 - 78	19	Adjust valves on engines with mechanical or hydraulic lifters.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
79 - 82	20	Remove and replace timing belt; verify correct camshaft timing.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003

Days	Task Number	Task Description	Core Content/Skill Standards
83 - 84	21	Remove and replace thermostat and gasket/seal.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
85 - 86	22	Inspect and test mechanical/electrical fans, fan clutch, fan shroud/ducting, air dams, and fan control devices; perform necessary action.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
87 - 89	23	Perform common fastener and thread repairs, to include: remove broken bolt, restore internal and external threads, and repair internal threads with a threaded insert.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
90	24	Perform engine oil and filter change.	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003

Education and Workforce Development Cabinet

CURRICULUM MAP

School:	**Central Office**	**Program:**	**Automotive Technology**
Teacher:	**William Bennett**	**School Year:**	**Current**
KCTCS Course Number:	**AUT 160 and 161**	**KY Tech Course Name**	**Suspension and Steering and Lab**
Length of Course:	**180 Days (School Year)**	**Length of Period**	**1 Hour**
High School Credit(s)	**1**		

Kentucky UNBRIDLED SPIRIT

Equal Education and Employment Opportunities M/F/D

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 1, 2 and 3	1	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.(Unit 1)	**Core Content**: PL-HS-4.1.3 PL-HS-4.2.1 **Skills Standards**: OH003 EG011
Day 4, 5, 6, 7 and 8	2	Identify and interpret suspension and steering concern; determine necessary action.(Unit 1)	**Core Content**: PL-HS-4.1.3 RD-10-2.0.2 RD-10-2.0.3 RD-10-2.0.4 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD004
Day 9 and 10	3	Research applicable vehicle and service information such as suspension and steering system operation, vehicle service history, service precautions, and technical service bulletins.(Unit 1)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
Day 11 and 12	4	Locate and interpret vehicle and major component identification numbers (VIN, vehicle certification labels, calibration decals).(Unit 1)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 13, 14 and 15	5	Disable and enable supplemental restraint system (SRS).(Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 16 and 17	6	Remove and replace steering wheel; center/time supplemental restraint system (SRS) coil (clock spring).(Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 18, 19 and 20	7	Diagnose steering column noises, looseness, and binding concerns (including tilt mechanisms); determine necessary action.(Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 21, 22 and 23	8	Diagnose power steering gear (non-rack and pinion) binding, uneven turning effort, looseness, hard steering, noise and fluid leakage concerns; determine necessary action.(Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 24, 25 and 26	9	Diagnose power steering gear (rack and pinion) binding, uneven turning effort, looseness, hard steering, noise, and fluid leakage concerns; determine necessary action. (Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 27 and 28	10	Inspect steering shaft universal-joint(s), flexible coupling(s), collapsible column, lock cylinder mechanism, and steering wheel; perform necessary action.(Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 29, 30 and 31	11	Adjust manual or power non-rack and pinion worm bearing preload and sector lash.(Unit 2)	**Core Content**: MA-HS-1.3.1 **Skills Standards**: AB003 AB005 AC001
Day 32, 33 and 34	12	Remove and replace manual or power rack and pinion steering gear; inspect mounting bushings and brackets.(Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 35, 36 and 37	13	Inspect and replace manual or power rack and pinion steering gear inner tie rod ends (sockets) and bellows boots. (unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
Day 38	14	Determine proper power steering fluid type; inspect fluid level and condition. (Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
Day 39 and 40	15	Flush, fill, and bleed power steering system. (Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 41 and 42	16	Diagnose power steering fluid leakage; determine necessary action. (Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 43	17	Remove, inspect, replace, and adjust power steering pump belt.(Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 44 and 45	18	Remove and reinstall power steering pump.(Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
Day 46 and 47	19	Remove and reinstall power steering pump pulley; check pulley and belt alignment.(Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
Day 48 and 49	20	Inspect and replace power steering hoses and fittings. (Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
Day 50, 51 and 52	21	Inspect and replace pitman arm, relay (centerlink/intermediate) rod, idler arm and mountings, and steering linkage damper. (Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 53 and 54	22	Inspect, replace, and adjust tie rod ends (sockets), tie rod sleeves, and clamps. (Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
Day 55 and 56	23	Test and diagnose components of electronically-controlled steering systems using a scan tool; determine necessary action. (Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 57 and 58	24	Inspect and test non-hydraulic electric power assist steering.(Unit 2)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 59 and 60	25	Identify hybrid vehicle power steering system electrical circuits, service and safety precautions. (Unit 2)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 61, 62 and 63	26	Diagnose short and long arm suspension system noises, body sway, and uneven riding height concerns; determine necessary action. (Unit 3)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 64, 65 and 66	27	Diagnose strut suspension system noises, body sway, and uneven riding height concerns; determine necessary action. (Unit 3)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 67, 68 and 69	28	Remove, inspect, and install upper and lower control arms, bushings, shafts, and rebound bumpers. (Unit 3)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 70 and 71	29	Remove, inspect and install strut rods(compression/tension) and bushings.(Unit 3)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 72 and 73	30	Remove, inspect, and install upper and/or lower ball joints. (Unit 3)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 74 and 75	31	Remove, inspect, and install steering knuckle assemblies. (Unit 3)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 76 and 77	32	Remove, inspect, and install short and long arm suspension system coil springs and spring insulators.(Unit 3)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 78 and 79	33	Remove, inspect, install, and adjust suspension system torsion bars; inspect mounts.(Unit 3)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 80 and 81	34	Remove, inspect, and install stabilizer bar bushings, brackets, and links. (Unit 3)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 82 and 83	35	Remove, inspect, and install strut cartridge or assembly, strut coil spring, insulators (silencers), and upper strut bearing mount.(Unit 3)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 84	36	Lubricate suspension and steering systems. (Unit 3)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
Day 85 and 86	37	Remove, inspect, and install coil springs and spring insulators. (Unit 4)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 87 and 88	38	Remove, inspect, and install transverse links, control arms, bushings, and mounts. (Unit 4)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 89 ad 90	39	Remove, inspect, and install leaf springs, leaf springs insulators (silencers), shackles, brackets, bushings, and mounts. (Unit 4)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 91 and 92	40	Remove, inspect, and install strut cartridge or assembly, strut coil spring, and insulators (silencers).(Unit 5)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 93 and 94	41	Inspect, remove, and replace shock absorbers.(Unit 5)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 95 and 96	42	Remove, inspect, and service or replace front and rear wheel bearings.(Unit 5)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 97	43	Test and diagnose components of electrically-controlled suspension systems using a scan tool; determine necessary action.(Unit 5)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 98, 99 and 100	44	Diagnose vehicle wander, drift, pull, hard steering, bump steer, memory steer, torque steer, and steering return bump concerns; determine necessary action.(Unit 6)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 101 and 102	45	Perform prealignment inspection; perform necessary action.(Unit 6)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 103 and 104	46	Measure vehicle riding height; determine necessary action.(Unit 6)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 105, 106, 107 and 108	47	Check and adjust front and rear wheel camber; perform necessary action.(Unit 6)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 109, 110 and 111	48	Check and adjust caster; perform necessary action.	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 112, 113, 114, 115 and 116	49	Check and adjust front wheel toe and center steering wheel.(Unit 6)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 117, 118 and 119	50	Check toe-out-on-turns (turning radius); determine necessary action. (Unit 6)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 120, 121,122 and 123	51	Check SAI (steering axis inclination) and included angle; determine necessary action. (Unit 6)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 124, 125, 126, 127 and 128	52	Check and adjust rear wheel toe.(Unit 6)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 129, 130, 131 and 132	53	Check rear wheel thrust angle; determine necessary action.(Unit 6)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 133, 134, 135 and 136	54	Check for front wheel setback; determine necessary action. (Unit 6)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 137, 138, 139 and 140	55	Check front cradle (subframe) alignment; determine necessary action. (Unit 6)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 141, 142 and 143	56	Diagnose tire wear patterns; determine necessary action.(Unit 7)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 144 and 145	57	Inspect tires; check and adjust air pressure.(Unit 7)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 146, 147, 148 and 149	58	Diagnose wheel/tire vibration, shimmy, and noise; determine necessary action.(Unit 7)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 150, 151 and 152	59	Rotate tires according to manufacturer's recommendations. (Unit 7)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 153, 154, 155 and 156	60	Measure wheel, tire, axle, and hub runout; determine necessary action.	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 157 and 158	61	Diagnose tire pull (lead) problem; determine necessary action.(Unit 7)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 159, 160, 161, 162 and 163	62	Balance wheel and tire assembly (static and dynamic).(Unit 7)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 164, 165 and 166	63	Dismount, inspect, and remount tire on wheel. (Unit 7)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 167, 168 and 169	64	Dismount, inspect, and remount tire on wheel equipped with tire pressure sensor. (Unit 7)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 SC-HS-1.2.2 **Skills Standards**: OH003 EC002
Day 170, 171 and 172	65	Reinstall wheel; torque lug nuts. (Unit 7)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002
Day 173 and 174	66	Inspect tire and wheel assembly for air loss; perform necessary action.(Unit 7)	**Core Content**: RD-10-2.0.2 MA-HS-1.3.1 SC-HS-1.2.2 **Skills Standards**: OD002 OD003 OD005 AE002

Day	Task No.	Tasks Description	Core Content/Skills Standards
Day 175, 176, 177 and 178	67	Repair tire using internal patch. (Unit 7)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003
Day 179 and 180	68	Inspect, diagnose, and calibrate tire pressure monitoring system. (Unit 7)	**Core Content**: RD-10-2.0.2 RD-10-2.0.3 **Skills Standards**: OE001 OH003